

County Borough



of Blackburn.

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EDUCATION COMMITTEE.

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# ANNUAL REPORT

For the Year 1911.

BY

ALFRED GREENWOOD, M.D., B.Sc., D.P.H.,

BARRISTER-AT-LAW,

MEDICAL OFFICER OF HEALTH AND SCHOOL MEDICAL OFFICER.



**BLACKBURN:**

*The Times" Printing Works, Northgate.*



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PUBLIC HEALTH OFFICE,

BLACKBURN,

March 19th, 1912.

*To the Chairman and Members of the Education Committee  
of the County Borough of Blackburn.*

MR. CHAIRMAN, LADIES AND GENTLEMEN,

I have the honour to submit to you my eighth Annual Report upon the work carried out as School Medical Officer for the year ending December 31st, 1911.

As in previous years, the material of this Report has been divided into the following Sections:—

*Section I.*—School Attendance in Blackburn during 1911.

*Section II.*—Sanitary Improvements in Blackburn Public Elementary Schools during 1911.

*Section III.*—Infectious Diseases in the same Schools during 1911.

*Section IV.*—Medical Inspection of Blackburn School Children during 1911.

Section IV. is exceedingly important, and occupies the greater part of the Report. I am indebted to Dr. Linton for much willing and valuable assistance, and also to my chief clerk, Mr. Fowler, who has rendered much useful help in the preparation of the tables.

I appreciate fully the confidence which you have always placed in me.

I am, Ladies and Gentlemen,

Your obedient servant,

ALFRED GREENWOOD,

*(School Medical Officer).*



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## ***SECTION I.***

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**School Attendance in Blackburn during 1911.**

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**I.—SCHOOL ATTENDANCE IN BLACKBURN  
DURING 1911.**

The following Table shows the accommodation and the average attendance at each School in Blackburn during the year 1911.

TABLE I.

NAME OF SCHOOL	School Accommodation	Average attendance for the year 1911.	
		1	2
Accrington Road .....	842	412	402
Audley Range .....	617	442	433
All Saints' .....	428	280	274
Bank Top .....	567	423	403
Cedar Street .....	580	410	402
Christ Church .....	971	681	662
Emmanuel .....	529	516	502
Furthergate .....	590	476	463
Four Lanes End .....	181	146	144
Griffin .....	759	489	481
Holy Trinity .....	470	414	404
Lower Darwen Council .....	287	172	168
Maudsley Street .....	592	380	370
Moss Street .....	749	543	529
Mill Hill Council .....	859	508	497
Mill Hill C.E. ....	297	278	272
Parish Higher Grade .....	675	446	446
Park Road .....	733	513	499
Sacred Heart .....	153	134	132
St. Alban's .....	1084	887	869
St. Alban's Higher Grade .....	101	66	66
St. Anne's .....	956	712	695
St. Andrew's .....	339	300	294
St. Barnabas' .....	622	499	489
St. Bartholomew's .....	358	299	291
St. Gabriel's .....	194	187	183
St. James' C.E. ....	280	160	158
St. James' C.E., Black-a-Moor...	324	109	107
St. James' C.E., Guide .....	300	108	105
St. John's C.E. ....	935	726	718
St. Joseph's .....	771	557	544
St. Luke's .....	588	395	385
St. Mary's .....	694	506	497
St. Matthew's .....	693	416	406
St. Michael's .....	591	443	431
St. Paul's .....	794	498	487
St. Peter's C.E. ....	637	298	292
St. Peter's R.C. ....	493	450	437
St. Silas' .....	678	431	426
St. Stephen's .....	554	495	484
St. Thomas' .....	699	584	571
Wensley Fold .....	435	374	367
Whalley Range .....	793	436	426
Witton Infants' .....	207	92	92
Regent Street .....	80	64	64
Blakey Moor Council .....	421	Not Complete. Year ends 31st July, 1912.	
Higher Elementary .....	392		

(1) Average on which grant was paid ... 17,755

(2) Actual average attendance ..... 17,367



The following Table shows the average school attendance, with the cause of fall in average attendance; and also the number of infected houses reported by the Medical Officer of Health to the Education Department during the year 1911. The last column only includes those diseases which are compulsorily notifiable under the Infectious Diseases Notification Act, and does not refer to such diseases as Measles, Whooping Cough, Mumps, etc., which are voluntarily notifiable diseases.

TABLE II.

Month	Average Attendance	Cause of Fall in Average Attendance	No. of houses reported from the Health Department as containing Infectious Diseases
January ...	17557	Measles, Mumps, Whooping Cough, and Scarlet Fever ...	60
February ..	17055	Measles, Mumps, Whooping Cough, and Scarlet Fever. Children under 5 at Cedar Street Infants' School excluded for 4 weeks .....	46
March .....	17241	Measles, Mumps, Whooping Cough, and Scarlet Fever. Children under 5 at Cedar Street Infants' School excluded a further 2 weeks ...	39
April .....	17377	Measles, Whooping Cough, and Chicken Pox. 23 Infant Departments affected ...	34
May .....	17921	Measles, Whooping Cough, and Chicken Pox. 11 Infant Departments affected ...	44
June .....	18147	Measles, etc. ....	27
July .....	18065	Measles, etc. ....	55
August ....	Holidays	Holidays	
September.	18543		27
October ...	18484		41
November..	17864	Measles, Chicken Pox, and Mumps, etc. ....	27
December..	17977	Measles, Chicken Pox, and Mumps, etc. ....	27

There was no necessity to close any School in Blackburn during 1911 on account of any outbreak of infectious disease.



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## ***SECTION II.***

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**Sanitary Improvements in Blackburn Schools  
during 1911.**

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## II.—SANITARY IMPROVEMENTS IN BLACKBURN SCHOOLS DURING 1911.

All the Schools have been inspected in order to ascertain the sanitary improvements which have been carried out during the year.

The following is a brief description of the work which has been carried out at those Schools where sanitary improvements have been made during 1911.

At the Schools not mentioned specially, either all my previous recommendations have been carried out, or no sanitary improvements have been effected during the year under review.

The Schools will be indicated by the same numbers which have been used in my former Reports.

Several classrooms named in this section are described by certain numbers. These refer to the correspondingly numbered classrooms on the plans of the various Schools which appeared in my detailed report upon the sanitary conditions of Blackburn Schools, and which was written in 1904.

The following is a list of the Public Elementary Schools of the Borough:—

- |                             |                               |
|-----------------------------|-------------------------------|
| 1.—St. Gabriel's.           | 13.—St. Silas'.               |
| 2.—Four Lanes End.          | 14.—Higher Elementary School. |
| 3.—Cedar Street.            | 15.—Blakey Moor Council.      |
| 4.—St. James' (Shear Brow). | 16.—St. Alban's (G. and I.).  |
| 5.—Bangor Street Council.   | 17.—St. Alban's H.G. (Boys).  |
| 6.—St. Stephen's.           | 18.—Holy Trinity.             |
| 7.—St. Michael's.           | 19.—St. Paul's.               |
| 9.—Moss Street.             | 21.—Furthergate.              |
| 10.—Sacred Heart.           | 22.—St. Barnabas'.            |
| 11.—St. John's.             | 23.—St. Thomas'.              |
| 12.—Regent Street Special   | 24.—Accrington Road.          |
| School.                     | 26.—St. Anne's.               |

- |                              |                               |
|------------------------------|-------------------------------|
| 27.—St. Mary's Higher Grade. | 42.—Christ Church (Mosley     |
| 28.—St. Matthew's.           | Street).                      |
| 29.—Maudsley Street.         | 43.—Christ Church (Rockcliffe |
| 30.—St. Joseph's.            | Street).                      |
| 31.—Wensley Fold.            | 44.—St. Peter's, Mill Hill.   |
| 32.—St. Peter's.             | 45.—Emmanuel.                 |
| 34.—Audley Range.            | 46.—Mill Hill.                |
| 35.—Bank Top.                | 47.—Mill Hill.                |
| 36.—St. Mary's, Islington.   | 48.—St. Andrew's.             |
| 37.—St. Luke's.              | 49.—St. Bartholomew's.        |
| 38.—Park Road.               | 50.—St. James', Guide.        |
| 39.—Witton Infants.          | 51.—St. James', Black-a-Moor. |
| 40.—Griffin.                 | 52.—Lower Darwen Council.     |
| 41.—All Saints'.             |                               |
- 

## 2.—FOUR LANES END SCHOOL.

During the year the old heating apparatus has been taken out and an entirely new system provided throughout the School.

Formerly the rooms were heated by hot water pipes only; these have now been substituted by hot water radiators fixed in each room, as follows:—

Main Schoolroom (No. 1).—Five hot water radiators have been fixed in this room, two of which are against outside walls.

Mixed Classroom (No. 2).—Three hot water radiators have been fixed in this room, two of which are against outside walls.

Infants' Room (No. 3).—Three hot water radiators have been fixed in this room, two of which are against outside walls.

There are two other radiators, one in the cloakroom, and one in the passage at the entrance to the School.



The School has been re-decorated throughout. The walls are coloured in two shades of green and the ceilings painted white.

#### 4.—ST. JAMES' SCHOOL, SHEAR BROW.

During the year an improvement to the Boys' Playground has been carried out by flagging the whole surface of the yard, the area of which measures 205 square yards. The surface has a fall to a trapped gulley, which is protected by a perforated flag on a level with the yard surface.

#### 5.—WHALLEY RANGE (COUNCIL) SCHOOL.

During the year this school has been closed for educational purposes and the scholars transferred to the new School in Bangor Street.

#### 9.—MOSS STREET SCHOOL.

During the year the School has been re-decorated throughout. The walls are painted green and the ceilings white.

#### 13.—ST. SILAS'S.

During the year the drains at this School were tested and found to be in a very insanitary condition, and as a result the drains have been taken up and re-laid and put on a sound sanitary principle.

A portion of the Girls' Playground (facing Clematis Street) has been flagged, the area of which measures 156 square yards.

#### INFANTS' DEPARTMENT.

Window ventilators, mainly for assisting cross ventilation, have been fixed in the following rooms, viz. :—

Main Room (No. 8).—A window, measuring four feet by three feet, made to open in two sections on the swivel arrangement, has been fixed in this room. This

window, when open, communicates directly with the store room and acts only as a ventilator when the windows in this room are opened. It is, however, intended that these store room windows shall be covered with wire netting in order to facilitate better ventilation of the schoolroom.

Classroom (No. 7).—A window of the same dimensions and construction as the one in room No. 8 has been fixed in No. 7 room. This window, when open, communicates directly with the lavatory (No. 5), and as a result acts only as a ventilator through this room.

Babies' Room (No. 11).—A window, measuring three feet by two feet, opening on the swivel arrangement, has been fixed in this room and communicates directly with the outside air.

Throughout the whole of the School the window and ventilator fittings have been overhauled and repaired.

#### 14.—PUBLIC HIGHER GRADE SCHOOL, MONTAGUE STREET.

This School has been closed for educational purposes.

#### 15.—PUBLIC HIGHER GRADE SCHOOL, NEW PARK STREET.

This School has been closed for educational purposes.

#### 18.—HOLY TRINITY.

During the year the building of a new School has been completed. It occupies the site formerly taken up by the old Infants' School and a portion of the playground on the Cleaver Street side.

This new School, which is of stone, is a two-storeyed building, and provides accommodation for the infants' and mixed departments.

The ground floor is for the accommodation of the infants, and consists of the following rooms, viz.:—

A central corridor, or hall, which measures 57 feet in length by 8 feet 4 inches in width.

Five classrooms branch from the said corridor, and are divided from each other and the corridor by movable glazed partitions. In this way either two classrooms can be made into one room, or, all rooms may be made into one large room.

There are two cloakrooms (infants') with lavatory accommodation, situated at the entrances to the school, one at each end of the corridor.

The first floor provides accommodation for the whole of the mixed department, and is similar in design to the (infants') ground floor, viz.:—

A central hall, which measures 77 feet in length by 16 feet 3 inches in width.

Six classrooms branch from the central hall and are divided from each other and the central hall by movable glazed partitions in the same way as mentioned in connection with the infants' department.

There are two well-lighted staircases, constructed of stone, leading to this floor and situated at each end of the building (boys' and girls'). There is also another flight of stone stairs at the boys' end, leading to the roof, where the playground for the boys is situated.

The heating of the rooms is chiefly by hot water radiators. There is a thermometer in each room for the purpose of recording the temperature.

The ventilation is by means of inlet ventilators fixed behind the hot water radiators, and "hoppers" have been fixed in windows.

The rooms are well lighted. The artificial light is electric.

The schoolroom floors are constructed of wood (tongued and grooved boards).

The boys' playground is on the roof of the school, and is constructed of a very fine concrete material, the area of which is 398 square yards. It is guarded by a stone wall 4 feet 9 inches high, on the top of which are fixed iron rails to a height of five feet. The surface water is carried away by six outlets leading on to hopper heads over downspouts.

The girls' and infants' playground is on the ground level at Trinity Street side of the School. The surface is well flagged, and the area measures 393 square yards.

#### SANITARY CONVENIENCES.

The number of sanitary conveniences for this School are:—

Girls' Department	...	7.		
Infants' „	...	3	and urinal accommodation.	
Boys' „	...	6	„	„

Each convenience is on the “wash-down pedestal” principle.

The following are the details of the schoolrooms:—

#### INFANTS' DEPARTMENT.

Classroom (No. 1) (Right N.E. end).—The floor space measures 24 feet by 23 feet 3 inches, or, 558 square feet.

The average number of scholars (babies) in this room is 38, which is equal to 14.4 square feet per head.

The height of the room is 13 feet, and the cubic space is 7,254 cubic feet.

The lighting consists of three windows, the total lighting area of which is 70 square feet, or one-eighth of the floor space.

The artificial light is by electricity.

The ventilation consists of an inlet ventilator, 14 inches by 9 inches, controlled by a lever and fixed immediately behind a hot water radiator on the outside wall. Other means of ventilation are by "hopper" window ventilators, of which there are eight in this room, each with a glass side shield attached.

The room is heated by two hot water radiators, and two rows of hot water pipes on one side. There is an open fireplace in this room.

Classroom (No. 2) (Right N.E. end).—The floor space measures 24 feet by 20 feet 6 inches, or 492 square feet.

The average number of scholars in this room is 38, which is equal to 13 square feet per head.

The height of the room is 13 feet, and the cubic space is 6,396 cubic feet.

The lighting consists of three windows, the total lighting area of which is 70 square feet, or one-seventh of the floor space.

The artificial light is by electricity.

The ventilation consists of an inlet ventilator, 14 inches by 9 inches, controlled by a lever and fixed immediately behind a hot water radiator on the outside wall. Other means of ventilation are by "hopper" window ventilators, of which there are eight in this room, each with a glass side shield attached.

The room is heated by one hot water radiator, and two rows of hot water pipes on two sides.

Classroom (No. 1) (Left N.E. end).—The floor space measures 24 feet 3 inches by 20 feet 6 inches, or, 497 square feet.

The average number of scholars in this room is 52, which is equal to 9.5 square feet per head.

The height of the room is 13 feet, and the cubic space is 6,461 cubic feet.

The lighting consists of three windows, the total lighting area of which is 70 square feet, or one-seventh of the floor space.

The artificial light is by electricity.

The ventilation consists of an inlet ventilator 14 inches by 9 inches, controlled by a lever and fixed immediately behind a hot water radiator on the outside wall. Other means of ventilation are by "hopper" window ventilators, of which there are eight in this room, each with a glass side shield attached.

The room is heated by one hot water radiator and a hot water pipe on two sides.

Classroom (No. 2) (Left N.E. end).—The floor space measures 24 feet 3 inches by 23 feet 3 inches, or, 564 square feet.

The average number of scholars in this room is 50, which is equal to 11.2 square feet per head.

The height of the room is 13 feet, and the cubic space is 7,332 cubic feet.

The lighting consists of three windows, the total lighting area of which is 97 square feet, or, between one-fifth and one-sixth of the floor space.

The artificial light is by electricity.

The ventilation consists of an inlet ventilator 14 inches by 9 inches, controlled by a lever and fixed immediately behind a hot water radiator on the outside wall. Other means of ventilation are by "hopper" window ventilators, of which there are 10 in this room, each with a glass side shield attached.



The room is heated by one hot water radiator and a hot water pipe on one side.

Classroom (No. 3) (Left N.E. end).—The floor space measures 23 feet 9 inches by 19 feet 3 inches, or, 457 square feet.

The average number of scholars in this room is 51, which is equal to 9 square feet per head.

The height of the room is 13 feet, and the cubic space is 5,941 cubic feet.

The lighting consists of three windows, the total lighting area of which is 70 square feet, or between one-sixth and one-seventh of the floor space.

The artificial light is by electricity.

The ventilation consists of an inlet ventilator 14 inches by 9 inches, controlled by a lever and fixed immediately behind a hot water radiator on the outside wall. Other means of ventilation are by "hopper" window ventilators, of which there are eight in this room, each with a glass side shield attached.

The room is heated by one hot-water radiator and a hot water pipe on one side.

Cloakroom and Lavatory (Infants') (N.E. Entrance). This room measures 21 feet 4 inches by 9 feet by 16 feet, and is situated in the passage at the entrance to the School. Three of the sides are enclosed, the other being partly open and formed of a glazed partition to a height of 7 feet only. There are 12 glass panels in this partition, each measuring 3 feet by 1 foot 1 inch. Also in this partition are fixed two doorways arranged in order that the scholars can enter by one and leave by the other.

It is lighted directly by one window, the total lighting area of which is 37 square feet, or one-fifth of the floor space. The room is also lighted indirectly by

another window (55 square feet) in addition to the 12 glass panels named above.

Artificial light is by electricity.

For ventilation purposes there are four "hopper" window ventilators, each opening 2 feet 8 inches by 10 inches.

The room is heated by two rows of hot water pipes on one side.

There are 91 double hooks on iron rails attached to the walls, and 52 double hooks on rack in centre of room, giving a total number of 143 hooks. (Each hook is numbered.)

There are four white enamelled glazed wash-basins with cold water supply. The waste pipe is trapped and discharges over gully in school yard.

The floor is concreted.

The walls are coloured green to a height of four feet, the remainder being plain plaster.

Cloakroom and Lavatory (Infants') (S.W. Entrance). This room measures 21 feet 6 inches by 4 feet 4 inches by 16 feet, and is situated in the passage at the entrance to the School. It is constructed in the same way as the one described at the north-east entrance. In the glazed partition on the side against the passage there are 12 glass panels, each measuring 3 feet by 1 foot 1 inch. There are two doorways arranged in order that the scholars can enter by one and leave by the other.

The total (direct) lighting area of the window is 19 square feet, or one-fifth of the floor space.

The artificial light is electric.

For ventilation purposes there are two "hopper" window ventilators, each opening 2 feet 8 inches by 10 inches.



The room is heated by two rows of hot water pipes on one side.

There are 86 double hooks on iron rails attached to the walls. (Each hook is numbered.)

There are three white enamelled glazed wash-basins with cold water supply. The waste pipe is trapped and discharges over gully in school yard.

The walls are coloured green to a height of 4 feet, the remainder being plain plaster.

#### MIXED DEPARTMENT.

Classroom (No. 1) (Right N.E. end).—The floor space measures 20 feet 3 inches by 20 feet 3 inches, or 410 square feet.

The average number of scholars in this room is 31, which is equal to 13.2 square feet per head.

The height of the room is 13 feet, and the cubic space is 5,330 cubic feet.

The lighting consists of three windows, the total lighting area of which is 70 square feet, or one-sixth of the floor space.

The artificial light is electric.

The ventilation consists of an inlet ventilator 14 inches by 9 inches, controlled by a lever and fixed immediately behind a hot water radiator on the outside wall. Other means of ventilation are by "hopper" window ventilators, of which there are eight in this room, each with a glass side shield attached.

The room is heated by a hot water radiator.

Classroom (No. 2) (Right N.E. end).—The floor space measures 20 feet 3 inches by 20 feet 3 inches, or 410 square feet.

The average number of scholars in this room is 34, which is equal to 12 square feet per head.

The cubic space, lighting, ventilation, and heating are the same as described in room No. 1.

Classroom (No. 3) (Right N.E. end).—The floor space measures 20 feet 3 inches by 20 feet 3 inches, or 410 square feet.

The average number of scholars in this room is 40, which is equal to 10 square feet per head.

The cubic space, lighting, ventilation and heating are the same as described in room No. 1.

Classroom (No. 1) (Left N.E. end).—The floor space measures 20 feet 3 inches by 20 feet 3 inches, or 410 square feet.

The average number of scholars in this room is 47, which is equal to 8.7 square feet per head.

The cubic space, lighting and ventilation are the same as described in room No. 1 (on the right at the N.E. end).

The room is heated by a hot water radiator and a hot water pipe on two sides.

Classroom (No. 2) (Left N.E. end).—The floor space measures 20 feet 3 inches by 20 feet 3 inches, or 410 square feet.

The average number of scholars in this room is 35, which is equal to 11.7 square feet per head.

The height of the room is 13 feet, and the cubic space is 5,330 cubic feet.

The lighting consists of three windows, the total lighting area of which is 68 square feet, or one-sixth of the floor space.

The artificial light is electric.

The ventilation consists of two inlet ventilators, each 14 inches by 9 inches, and controlled by a lever. Both are fixed in the outside wall, one of which is situated immediately behind the hot water radiator. Other means of ventilation are by "hopper" window ventilators, of which there are ten in this room, each with a glass side shield attached.

The room is heated by a hot water radiator and a hot water pipe on one side.

Classroom (No. 3) (Left N.E. end).—The floor space measures 20 feet by 20 feet 3 inches, or 405 square feet.

The average number of scholars in this room is 37, which is equal to 10.9 square feet per head.

The height of the room is 13 feet, and the cubic space is 5,265 cubic feet.

The lighting consists of three windows, the total lighting area of which is 64 square feet, or between one-sixth and one-seventh of the floor space.

The artificial light is electric.

The ventilation consists of an inlet ventilator 14 inches by 9 inches, controlled by a lever and fixed immediately behind a hot water radiator on the outside wall. Other means of ventilation are by "hopper" window ventilators, of which there are eight in this room, each with a glass side shield attached.

The room is heated by a hot water radiator and a hot water pipe on two sides.

Cloakroom and Lavatory (Girls') (situated in basement of building).—This room measures 18 feet 3 inches by 8 feet 3 inches by 7 feet 6 inches.

The room is lighted by one window (4 feet by 2 feet 4 inches) of obscured glass, the total lighting area of which is 9.3 square feet, or one-sixteenth of the floor space.

The artificial light is electric.

For ventilation purposes the window is made to open in two parts on the "hopper" principle. There are two ventilator grates in the walls, each 7 inches by 6 inches, but they are not of much use as they do not communicate with the outside air.

The room is heated by two rows of hot water pipes, fixed 6 inches from the ceiling.

There are 68 double hooks on iron rails attached to the walls, and 52 double hooks on iron rack in centre of room, giving a total number of 120 hooks. (Each hook is numbered.)

The floor is constructed of concrete.

The walls are coloured in two shades of green.

In the lavatory, which is separate from the cloakroom, there are four straw-coloured enamelled glazed wash-basins with cold water supply. The waste pipe is trapped, but as it is taken underneath the floor cannot say whether it discharges over a gully or not.

This room is lighted by one window, 3 feet by 2 feet 3 inches, made to open on the "hopper" principle.

Cloakroom and Lavatory (Boys') (situated in the basement of building).—This cloakroom is constructed in exactly the same way as the girls' cloakroom. The only difference being that there are four ventilator grates in the walls, each 7 inches by 6 inches, as compared with two in the girls'.

The lavatory has been constructed and fitted in the same way as the girls' lavatory.

## 21.—FURTHERGATE.

During the year the School has been re-decorated throughout. The walls have been painted in two shades of green and the ceilings are white.

The top tower cloakroom (A) floor and the landing and top flight of stairs leading thereto have been re-concreted.

## 23.—ST. THOMAS'S.

During the year the floors throughout the whole of the School have been repaired; and in the infants' schoolroom a grating in the floor 55 feet in length, underneath which were hot water pipes, has been taken up and the cavity boarded over.

## 24.—ACCRINGTON ROAD.

## INFANT SCHOOL.

The infants' department now occupies the whole of the older portion of the building.

During the year considerable alterations have been carried out in this building with respect to the heating of the schoolrooms.

Great difficulty and much inconvenience have been experienced at this School with regard to the heating and regulation of temperature in the schoolrooms. Accordingly the following improvements have been carried out.

Hot water radiators have been substituted for hot water pipes and coils, and a number of ventilators have been removed, as follows:—

## Main Room (No. 7):

Six hot water radiators provided.

Six Tobin's tubes ventilators taken out.

## Classroom (No. 6):

Three hot water radiators provided.

Three Tobin's tubes ventilators taken out.

## Classroom (No. 8):

Two hot water radiators provided.

Two Tobin's tubes ventilators taken out.

## Cloakroom (No. 11):

Two rows of hot water pipes provided.

## Passage adjoining:

One hot water radiator provided.

## Cloakroom (No. 10):

Two rows of hot water pipes provided.

## Classroom (No. 9):

Two hot water radiators provided.

Two Tobin's tubes ventilators taken out.

## Cloakroom (No. 12):

Two rows of hot water pipes provided.

The clothes rack in the above room has been disconnected from the wall and moved towards the centre of the room in order that the scholars can have free passage round.

## Teachers' Room:

A new firegrate of approved type has been fixed in this room. A cowl has been fixed on the chimney pot for the purpose of remedying down draught.

## Babies' Cloakroom (No. 13):

Three rows of hot water pipes on one side and two rows of hot water pipes on the other side have been provided.

Classroom (No. 5) (not used at present):

Two hot water radiators and two rows of hot water pipes have been provided.

Two Tobin's tubes ventilators have been taken out.

Classroom (No. 4) (not used at present):

Two hot water radiators and two rows of hot water pipes have been provided.

Two Tobin's tubes ventilators have been taken out.

Drill Hall (Nos. 2 and 3):

Seven hot water radiators have been provided.

Six Tobin's tubes ventilators have been taken out.

Classroom (No. 1):

Three hot water radiators have been provided.

Three Tobin's tubes ventilators have been taken out.

Cloakroom (No. 14):

Two rows of hot water pipes have been provided.

Entrance Hall:

One hot water radiator has been provided.

As a result of these improvements the heating of the school building and the temperature of the classrooms can be kept at a satisfactory level.

### 30.—ST. JOSEPH'S.

The walls and ceilings have been cleansed throughout the School.



## 32.—ST. PETER'S SCHOOL, BYROM STREET.

Seven new window ventilators on the Sherringham valve principle have been provided in the mixed department, five in room No. 4 and two in room No. 5. The ventilators in room No. 4 measure 2 feet by 1 foot 5 inches, and those in room No. 5 measure 3 feet by 1 foot 3 inches. All the ventilators and ventilating shafts have been cleansed and overhauled.

The handrails on both staircases have been raised one foot higher by the addition of two iron rails.

## 34.—AUDLEY RANGE.

The School has been re-decorated throughout. The walls have been painted green and the ceilings are white.

## 35.—BANK TOP SCHOOL.

The floor of room No. 5 has been re-laid with tongued and grooved boards.

The doors of the Infant Department have been re-fixed and repaired so as to prevent draughts.

The surfaces of the stone steps leading to the yard have been re-levelled.

Additional ventilation has been provided in the sanitary conveniences by the removal of portions of the doors above and below.

## 38.—PARK ROAD SCHOOL.

The ceilings in both departments have been white-washed.

The floor of the main room in the Infant Department has been repaired where necessary.

An additional door has been constructed in the infants' cloakroom.



## 40.—GRIFFIN SCHOOL.

## BOYS' DEPARTMENT.

A storeroom and cloakroom have been erected near the main entrance and adjoining room No. 4.

There are two doors in the cloakroom,—one leading from room No. 4 and one from outside, both opening outwards.

The cloakroom is constructed of concrete throughout, and measures 20 feet long, 8 feet 9 inches broad, and 9 feet 6 inches high.

It is lighted by means of two windows, which measure 3 feet 8 inches by 2 feet 8 inches. The tops of these windows are hinged and open outwards to the extent of one-third the area of the whole window. This opening can be regulated.

There are 147 double hooks fixed on the walls and a movable rack. There are two glazed enamelled lavatory basins, the waste pipes from which are trapped and discharge over a gully outside. A locker has also been provided for soap and towels. The room is heated by hot water pipes fixed against the walls at a height of three feet from the floor. There is an outlet ventilator in the roof measuring 1 foot by 1 foot and arranged so as not to cause a down draught. Four new wooden trunk outlet ventilators, 2 feet by 2 feet, have been provided in the roof of the boys' schoolroom, arranged so as to prevent down draught. Also three have been provided in room No. 4 and one in room No. 3.

## INFANTS' DEPARTMENT.

A new cloakroom has been constructed adjoining room No. 7, which measures 11 yards by 11 feet by 8 feet. The floor is flagged. This room is lighted by means of a window measuring 4 feet by 3 feet. The top of the window is hinged and opens outwards about two-fifths of the area of the whole window; and a fanlight has been fixed over the door, measuring 3 feet 9 inches by 1 foot 6 inches. There are 165 double hooks fixed on the walls. There is a white glazed enamelled

lavatory basin, the waste pipe from which is trapped and which discharges over a gully outside. The room is heated by hot water pipes fixed against the wall. There is an opening in the wall on the school side communicating with the cellar, leading to the heating apparatus.

#### 41.—ALL SAINTS' SCHOOL.

The lighting has been improved by the substitution of transparent glass in place of frosted glass in the following rooms:—

No. 1 Room—1 pane, 4 ft. 2 in. by 1 ft. 6 in.

No. 2 Room—2 panes, 4 ft. 2 in. by 1 ft. 6 in.

No. 6 Room—3 panes, 4 ft. 2 in. by 1 ft. 6 in.

Estimates for new lavatories are being considered.

#### 42.—CHRIST CHURCH SCHOOL, MOSLEY STREET.

##### GIRLS' DEPARTMENT.

Two movable glazed partitions have been constructed in No. 4 room, thus dividing this room into three classrooms. The partitions consist of wood to a height of four feet from the floor; then three rows of glass, each row consisting of 18 panes. The bottom row consists of frosted glass, and measures 2 feet 11 inches by 2 feet 3 inches. The two upper rows of plain glass measure 2 feet by 1 foot 3 inches; then wood up to the apex.

A glazed partition has been removed from rooms Nos. 5 and 6, converting these two rooms into one classroom. A new cupboard has been provided in this room.

#### 45.—EMMANUEL SCHOOL.

##### INFANTS' DEPARTMENT.

The ceilings of the main schoolroom and the classrooms have been painted white.

##### MIXED DEPARTMENT.

The ceilings of the two classrooms Nos. 8 and 9 have been painted white.

## 48.—ST. ANDREW'S SCHOOL.

A new cloakroom has been erected, providing accommodation for both the boys and the girls, on the south side of the School. It is divided into two portions by a wooden partition (in which there is a door) to a height of 9 feet 6 inches. The boys' cloakroom measures 14 feet 10 inches by 14 feet 2 inches by 13 feet. It is lighted by a fixed roof light consisting of 10 panes each measuring 3 feet by 1 foot, and by a window in the wall, having four fixed panes 16 inches by 16 inches, and one at the top 3 feet by 16 inches, made to open inwards. There are 75 double hooks on the walls, and 42 on a movable rack in the middle of the room.

There is one white glazed enamelled lavatory basin, and a white glazed sink, the waste pipes from which are trapped and discharge over gullies outside. There are two doors to the cloakroom, one leading from the schoolroom and one from the playground.

The girls' cloakroom measures 14ft. 10in. by 12ft. 3in. by 13ft. It is lighted in the same manner as the boys' cloakroom. There are 82 double hooks fixed on the walls, and 42 hooks on a movable rack in the middle of the room. There are three white glazed enamelled lavatory basins, the waste pipes from which are trapped and discharge over a gulley outside. There are two doors, one leading from the schoolroom and one from outside. The woodwork and walls have not been painted. The floor is flagged. The room is heated by hot water pipes.

A field measuring half an acre has been acquired as an additional playground for the children of this School.

## 51.—ST. JAMES' SCHOOL, BLACK-A-MOOR.

The walls and ceilings were cleaned during the summer holidays.

The sanitary conditions of the Public Elementary Schools of Blackburn are very much better than they were ten years ago.

I should still hail with delight a more frequent wet cleansing of schoolroom floors. It is extremely important that school caretakers should understand and carry out their work thoroughly.

Sets of temperature charts have again been supplied to all the Schools for the purpose of recording twice daily the temperature of each classroom. Where such readings have been too high or too low, special note has been taken for future remedial measures.

It is important that teachers should realise the need for ventilation of classrooms, and I should like to see greater advantage taken of the existing means of ventilation.

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## *SECTION III.*

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Infectious Diseases in Blackburn Schools  
during 1911.

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### **III.—INFECTIOUS DISEASES IN BLACKBURN SCHOOLS DURING 1911.**

The Infectious Diseases, Scarlet Fever, Diphtheria and Typhoid Fever are compulsorily notifiable by Medical Practitioners to the Medical Officer of Health.

With respect to Measles, Whooping Cough, Chickenpox and Mumps, which are voluntarily notifiable, reliance must be placed upon the observation and promptitude of teachers in the various Schools.

During 1911, there was an increase in the number of reported cases of Measles, Diphtheria, Whooping Cough and Mumps, as compared with the year 1910.

There was a decrease in the number of reported cases of Scarlet Fever, Typhoid Fever and Chickenpox, as compared with the year 1910.

The following particulars indicate the number of cases of the above diseases which were reported as occurring amongst children of the various Schools during 1911.

Other particulars respecting these Infectious Diseases affecting the Borough as a whole may be found in my Annual Report to the Health Committee for the year 1911.

**MEASLES.**

There was an increase in the number of cases of Measles reported from the Schools during 1911, namely, 942 cases, compared with 732 cases reported during the year 1910.

Of these 942 cases, 820 were visited by the Lady Health Visitors.

With reference to the 820 cases investigated by the Lady Health Visitors, 411 were males and 409 were females. In 350 cases, or 42.7 per cent., a medical man was in attendance; but in the remaining 470 cases, or 57.2 per cent., no medical man was called in, although the parents were advised to do so.

In 334 cases an attempt at home isolation was made, but in the remaining 486 cases no isolation at all was made during the illness.

The following Table indicates the number of reported cases of Measles, occurring in each School monthly, during 1911.



TABLE III.—Measles in Schools during 1911.

SCHOOL.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Accrington Road .....	3	2	1	1	...	...	...	...	...	...	...	...	7
Audley Range .....	1	...	...	3	...	8	2	...	...	...	...	...	14
All Saints' .....	5	32	...	...	...	...	2	...	...	...	...	...	39
Bank Top .....	10	18	...	...	...	...	...	...	...	...	1	...	29
Cedar Street .....	...	26	10	...	...	...	...	...	...	1	...	...	37
Christ Church .....	14	57	...	2	...	...	...	...	...	...	...	3	76
Emmanuel .....	19	17	5	1	...	...	...	...	...	...	...	...	42
Furthergate .....	...	1	...	...	...	...	...	...	...	...	...	...	1
Four Lanes End .....	1	...	1	1	...	...	...	...	...	...	...	...	3
Griffin .....	1	...	...	...	...	...	...	...	...	...	...	...	1
Holy Trinity .....	...	1	...	...	...	...	...	...	...	...	...	...	1
Lower Darwen C. ....	...	1	16	...	...	...	...	...	...	...	...	...	17
Maudsley Street .....	...	2	2	...	...	...	...	...	...	...	...	1	5
Moss Street .....	11	11	4	...	...	...	...	...	...	...	...	...	26
Mill Hill C. ....	19	55	...	...	...	...	...	...	...	...	...	...	74
Norfolk Street .....	4	11	...	...	...	...	...	...	...	1	...	...	16
Parish Higher Grade	...	...	...	...	...	...	...	...	...	...	...	...	...
Public Higher Grade (B)	2	...	...	...	...	...	...	...	...	...	...	...	2
" " " (G)	...	...	...	...	...	7	...	...	...	...	...	...	7
Blakey Moor C. ....	...	...	...	...	...	...	...	...	...	...	...	...	...
Higher Elementary ...	...	...	...	...	...	...	...	...	...	...	...	...	...
Park Road .....	...	...	...	...	...	...	...	...	...	...	...	9	9
Sacred Heart .....	...	1	...	...	...	...	9	...	...	...	...	...	10
St. Alban's .....	1	...	1	...	...	...	...	...	...	...	...	...	2
" H.G. ....	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Anne's .....	...	2	...	...	...	...	...	...	...	...	...	...	2
St. Andrew's .....	12	16	2	1	...	...	...	...	...	...	...	...	31
St. Barnabas' .....	4	...	24	24	...	...	...	...	...	...	...	...	52
St. Bartholomew's ....	2	16	2	...	1	...	...	...	...	...	1	...	22
St. Gabriel's .....	...	4	11	...	...	...	...	...	...	...	...	1	16
St. James S.B. ....	...	...	...	1	...	...	...	...	...	...	...	1	2
" Black-a-Moor	...	9	1	...	...	...	...	...	...	...	...	...	10
" Guide .....	...	...	...	...	...	...	...	...	...	...	...	...	...
St. John's .....	15	31	...	...	...	...	...	...	...	...	...	...	46
St. Joseph's .....	3	...	...	...	...	...	...	...	...	...	...	...	3
St. Luke's .....	4	1	...	...	...	...	...	...	...	...	...	...	23
St. Mary's R.C. ....	...	...	...	...	...	...	...	...	3	15	...	...	18
St. Matthew's .....	...	1	6	3	3	...	...	...	...	...	1	...	14
St. Michael's .....	1	16	7	...	2	...	1	...	...	...	...	...	27
St. Paul's .....	28	...	...	1	...	...	...	...	...	...	...	1	30
St. Peter's N. ....	...	16	...	...	...	...	...	...	...	...	1	...	17
" R.C. ....	39	2	...	...	...	...	...	...	...	...	1	6	48
St. Silas' .....	...	...	1	25	16	...	...	...	...	1	1	...	44
St. Stephen's .....	16	32	...	...	...	...	...	...	...	...	...	1	49
St. Thomas' .....	...	...	...	1	4	6	...	...	...	...	...	...	11
Wensley Fold .....	1	1	...	...	...	...	2	...	...	...	...	...	4
Whalley Range .....	...	8	21	...	...	...	...	...	...	...	...	...	29
Witton Infants .....	15	10	...	...	...	...	...	...	...	...	...	...	25
Regent Street .....	...	1	...	...	...	...	...	...	...	...	...	...	1
TOTALS ...	231	401	115	64	26	21	16	.	3	18	19	28	942

**SCARLET FEVER.**

The total number of cases of this disease reported in the whole Borough during 1911 was 343, compared with 795 cases during 1910.

Of the above 343 cases, 199 occurred amongst school children, or 58.0 per cent.

Similar percentages for several previous years were as follows:—

<i>Year.</i>	<i>Percentage.</i>
1904 .....	65.9
1905 .....	66.7
1906 .....	60.5
1907 .....	60.8
1908 .....	64.7
1909 .....	62.9
1910 .....	61.7

The following Table indicates the number of notified cases of Scarlet fever occurring in each School, monthly, during 1911.

TABLE IV.—Scarlet Fever in Schools during 1911.

SCHOOL.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Accrington Road .....	1	3	3	2	..	..	..	1	2	..	..	1	13
Audley Range .....	1	1	1	2	3	1	1	..	..	2	1	..	13
All Saints' .....	..	..	..	..	..	..	..	..	2	2	2	..	6
Bank Top .....	..	..	..	..	..	1	..	..	..	..	1	..	2
Christ Church .....	1	..	..	..	1	..	2	..	..	3	..	..	7
Emmanuel .....	..	1	..	..	..	1	..	..	..	1	1	..	4
Furthergate .....	..	..	..	..	..	..	2	..	..	3	..	1	6
Four Lanes End .....	1	..	..	..	..	..	..	..	..	..	..	..	1
Griffin .....	1	..	1	1	..	..	..	1	..	..	..	1	5
Holy Trinity .....	..	1	1	..	..	..	1	..	..	..	..	..	3
Lower Darwen C. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
Maudsley Street .....	..	..	..	1	1	..	..	..	..	2	1	..	5
Moss Street .....	..	..	..	..	1	..	..	..	1	2	..	..	4
Mill Hill C. ....	..	..	..	..	..	..	..	..	..	2	1	..	3
Norfolk Street .....	..	2	..	..	..	..	..	..	..	..	..	..	2
Parish Higher Grade ..	2	2	..	1	2	..	..	..	..	..	..	..	7
Public Higher Grade (B)	1	1	..	..	..	..	..	..	..	..	..	..	2
" " " (G) .....	1	1	1	1	..	..	..	..	..	..	..	..	4
Blakey Moor C. ....	..	..	..	..	..	..	..	..	..	1	..	..	1
Higher Elementary ...	..	..	..	..	..	..	..	..	..	..	..	..	..
Park Road .....	2	..	..	..	1	..	1	..	..	..	..	..	4
Sacred Heart .....	..	..	..	..	1	..	..	..	..	..	..	..	1
St. Alban's .....	1	1	..	..	1	..	..	..	..	..	..	..	3
" H.G. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's .....	..	..	..	..	..	..	1	..	..	..	..	..	1
St. Andrew's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Barnabas' .....	..	1	..	..	1	..	..	..	..	..	1	..	3
St. Bartholomew's .....	..	..	..	..	..	..	..	..	..	..	1	1	2
St. Gabriel's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. James S.B. ....	..	..	..	..	..	..	..	..	1	..	..	..	1
" Black-a-Moor	..	..	..	..	..	..	..	..	..	..	..	..	..
" Guide .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. John's .....	3	2	3	..	1	..	9	1	..	..	..	..	19
St. Joseph's .....	..	..	1	2	..	1	1	..	..	..	..	1	6
St. Luke's .....	..	..	..	..	..	..	1	..	..	..	..	..	1
St. Mary's R.C. ....	..	..	..	..	1	..	1	..	..	..	..	..	2
St. Matthew's .....	..	1	..	..	1	2	2	3	1	3	1	..	13
St. Michael's .....	1	..	..	..	..	..	..	..	1	..	..	..	2
St. Paul's .....	..	..	..	..	1	..	..	..	1	1	..	..	3
St. Peter's N. ....	..	..	..	..	..	..	1	..	..	..	..	..	1
" R.C. ....	1	1	..	..	1	..	..	..	..	..	..	..	3
St. Silas' .....	1	1	..	..	..	..	1	..	..	..	..	1	4
St. Stephen's .....	2	..	1	1	..	..	..	1	..	4	1	..	10
St. Thomas' .....	..	..	..	..	1	1	3	6	1	3	..	..	15
Wensley Fold .....	..	..	..	..	..	1	1	..	..	..	..	..	2
Whalley Range .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Witton Infants .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Secondary School .....	2	1	1	..	..	..	..	..	..	..	1	..	5
" " .....	1	..	..	..	..	1	..	..	..	..	..	..	2
" " .....	..	..	..	..	..	..	..	1	..	..	..	1	2
Private Schools—													
A .....	1	..	..	..	..	..	..	..	1	..	..	..	2
B .....	..	1	..	..	..	..	..	..	..	..	..	..	1
C .....	..	..	1	..	..	..	1	..	..	..	..	..	2
D .....	..	..	..	..	1	..	..	..	..	..	..	..	1
TOTALS ...	24	21	14	11	19	9	29	14	11	29	12	7	199

**DIPHTHERIA.**

The total number of cases of this disease reported in the whole Borough during 1911 was 107, compared with 96 cases in 1910.

Of these 107 cases, 62, or 57.9 per cent., occurred amongst school children.

Similar percentages for several previous years were as follows :—

<i>Year.</i>	<i>Percentage.</i>
1904 .....	40.0
1905 .....	47.7
1906 .....	50.0
1907 .....	54.0
1908 .....	50.0
1909 .....	48.0
1910 .....	58.3

The following Table indicates the number of notified cases of Diphtheria occurring in each School, monthly, during 1911.

TABLE V.—Diphtheria in Schools during 1911.

SCHOOL.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Accrington Road .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Audley Range .....	..	..	..	..	..	1	..	..	..	..	..	..	1
All Saints' .....	..	..	..	..	..	1	..	..	..	..	..	..	1
Bank Top .....	..	..	..	1	..	..	..	..	..	..	..	..	1
Cedar Street .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Christ Church .....	..	1	1	1	1	..	..	..	..	..	..	..	4
Emmanuel .....	..	1	..	..	..	..	..	..	..	..	..	..	1
Furthergate .....	..	..	..	..	..	..	..	1	1	..	..	..	2
Four Lanes End .....	..	..	3	..	..	..	..	..	..	..	..	..	3
Griffin .....	..	1	..	2	3	1	..	..	..	1	..	..	8
Holy Trinity .....	..	..	..	..	..	..	1	..	..	..	..	..	1
Lower Darwen C. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
Maudsley Street .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Moss Street .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Mill Hill C. ....	2	..	..	..	1	..	..	..	..	..	..	..	3
Norfolk Street .....	..	..	..	..	1	..	..	1	..	..	..	..	2
Parish Higher Grade ..	..	1	..	..	..	..	..	..	..	..	..	..	1
Public Higher Grade (B)	..	..	..	..	..	..	..	..	..	..	..	..	..
"    "    "    (G)	..	..	..	1	..	..	..	1	..	..	..	..	2
Blakey Moor C. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
Higher Elementary ...	..	..	..	..	..	..	..	..	..	..	1	..	1
Park Road .....	..	..	..	1	..	..	..	..	..	..	..	..	1
Sacred Heart .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Alban's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
"    H.G. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's .....	..	..	..	..	..	..	..	1	..	..	..	..	1
St. Andrew's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Barnabas' .....	..	..	..	..	..	..	2	..	..	1	..	..	3
St. Bartholomew's ....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Gabriel's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. James S.B. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
"    Black-a-Moor ..	..	..	..	..	..	..	..	..	..	..	..	..	..
"    Guide .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. John's .....	..	..	..	..	..	3	..	..	..	..	..	..	3
St. Joseph's .....	..	1	..	..	..	..	..	..	1	..	..	..	2
St. Luke's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Mary's R.C. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Matthew's .....	..	..	..	..	1	1	..	..	..	..	..	..	2
St. Michael's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's .....	..	..	..	..	..	1	..	..	..	..	..	..	1
St. Peter's N. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
"    R.C. ....	..	..	..	1	1	..	1	..	..	..	1	..	4
St. Silas' .....	..	..	..	..	..	3	1	2	..	..	1	..	7
St. Stephen's .....	..	..	..	..	..	..	1	..	..	..	1	..	2
St. Thomas' .....	..	3	..	..	..	..	..	..	..	..	1	..	4
Wensley Fold .....	..	..	..	1	..	..	..	..	..	..	..	..	1
Whalley Range .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Witton Infants .....	..	..	..	..	1	..	..	..	..	..	..	..	1
TOTALS ... ..	2	4	8	8	9	3	9	6	4	2	2	5	62

**TYPHOID FEVER.**

The total number of cases of this disease reported in the whole Borough during 1911 was 49, compared with 46 cases during 1910.

Of these 49 cases, 10, or 24.0 per cent. occurred amongst school children.

Of the 10 cases occurring amongst the school children 3 cases occurred in one house, and 3 in another house.

Similar percentages for several previous years were as follows:—

<i>Year.</i>	<i>Percentage.</i>
1905 .....	33.3
1906 .....	31.7
1907 .....	21.3
1908 .....	22.3
1909 .....	26.0
1910 .....	23.9

The following Table indicates the number of notified cases of Typhoid Fever occurring in each School, monthly, during 1911.



TABLE VI.—Typhoid Fever in Schools during 1911.

SCHOOL.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Accrington Road .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Audley Range .....	..	..	..	..	..	..	..	..	..	..	..	..	..
All Saints' .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Bank Top .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Cedar Street .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Christ Church .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Emmanuel .....	..	1	..	..	..	..	..	..	..	*4	..	..	5
Furthergate .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Four Lanes End .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Griffin .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Holy Trinity .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Lower Darwen C. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
Maudsley Street .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Moss Street .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Mill Hill C. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
Norfolk Street .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Parish Higher Grade ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Public Hr. Grade (B) ..	..	..	..	..	..	..	..	..	..	..	..	..	..
"    "    "    (G) ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Blakey Moor C. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
Higher Elementary ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Park Road .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Sacred Heart .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Alban's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
"    H.G. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Andrew's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Barnabas' .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Bartholomew's ...	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Gabriel's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. James S.B. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
"    Black-a-moor ..	..	..	..	..	..	..	..	..	..	..	..	..	..
"    Guide .....	..	1	..	..	..	..	..	..	..	..	..	..	1
St. John's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Joseph's .....	..	..	..	..	†3	..	..	..	..	..	..	..	3
St. Luke's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Mary's R.C. ....	..	..	..	..	..	..	..	..	..	1	..	..	1
St. Matthew's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Michael's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's N. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
"    R.C. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Silas' .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Stephen's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Thomas' .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Wensley Fold .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Whalley Range .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Witton Infants .....	..	..	..	..	..	..	..	..	..	..	..	..	..
TOTALS ... ..	..	2	..	..	3	..	..	..	..	5	..	..	10

\* 3 in one house.

† All in one house.

**WHOOPIING COUGH.**

209 cases of this disease were reported by school teachers during 1911, compared with 120 cases during 1910.

All these cases were visited by the Lady Health Visitors.

With reference to the 209 cases investigated, 96 were males and 113 were females. In 74 cases, or 35.5 per cent., a medical man was in attendance, but in the remaining 135 cases, or 64.5 per cent., no medical man was in attendance, although the parents were advised to call in their family doctor.

In 15 cases only was any attempt made at home isolation.

The following Table indicates the number of reported cases of Whooping Cough occurring in each School, monthly, during 1911.





**CHICKENPOX.**

183 cases of this disease were reported from the Schools during 1911, compared with 233 cases during 1910.

All these cases were visited by the Lady Health Visitors.

Of the 183 cases investigated, 84 were males and 99 were females. In 52 cases, or 28.4 per cent., a medical man was in attendance; but in the remaining 131, or 71.5 per cent., no medical man was called in, although the parents were advised to do so.

In 41 cases isolation was carried out at home.

The following Table indicates the number of reported cases of Chickenpox occurring in each School, monthly, during 1911.

TABLE VIII.—Chickenpox in Schools during 1911.

SCHOOL.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total.
Acerrington Road .....	..	..	..	..	..	..	..	..	..	..	..	..	3
Audley Range .....	..	..	2	1	..	..	..	..	..	..	..	..	9
All Saints' .....	..	..	..	..	..	..	..	..	..	..	..	..	9
Bank Top .....	..	..	..	..	..	..	..	..	..	..	..	9	19
Cedar Street .....	11	..	6	..	..	..	..	..	..	1	1	..	3
Christ Church .....	1	..	..	..	..	..	..	..	..	..	1	1	6
Emmanuel .....	..	..	..	..	..	..	..	..	..	..	3	3	1
Furthergate .....	..	1	..	..	..	..	..	..	..	..	..	..	..
Four Lanes End .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Griffin .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Holy Trinity .....	..	..	..	..	3	..	..	..	..	..	..	..	3
Lower Darwen C. ....	..	..	3	..	..	..	..	..	..	..	..	..	3
Maudsley Street .....	..	..	..	..	..	..	..	..	1	..	2	1	4
Moss Street .....	1	..	..	..	..	..	2	..	..	..	..	..	3
Mill Hill C. ....	..	..	..	..	..	..	..	..	..	1	1	..	2
Norfolk Street .....	..	1	..	..	..	..	..	..	..	..	1	2	4
Parish Higher Grade ..	..	..	3	..	..	..	..	..	..	..	..	..	3
Public Higher Grade (B)	1	2	..	..	..	..	..	..	..	..	..	..	3
" " " (G) .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Blakey Moor C. ....	..	..	..	..	..	..	..	..	..	1	..	..	1
Higher Elementary ...	..	..	..	..	..	..	..	..	..	..	..	..	..
Park Road .....	..	..	..	..	..	..	..	..	..	..	2	1	3
Sacred Heart .....	..	1	1	..	..	..	..	..	..	..	..	..	2
St. Alban's .....	..	..	..	..	..	..	..	..	..	..	..	3	3
" H.G. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's .....	..	2	..	..	..	..	..	..	1	12	..	..	15
St. Andrew's .....	3	..	..	..	..	..	1	..	..	..	..	..	4
St. Barnabas' .....	..	..	1	..	..	..	..	..	..	1	..	..	2
St. Bartholomew's ....	..	..	2	..	..	..	..	..	..	..	8	5	15
St. Gabriel's .....	..	..	..	..	..	..	..	..	..	..	..	1	1
St. James S.B. ....	..	1	3	..	..	..	..	..	..	..	..	..	4
" Black-a-Moor .....	..	..	..	..	..	..	..	..	..	..	..	..	..
" Guide .....	..	..	5	..	..	..	..	..	..	..	..	..	5
St. John's .....	3	2	5	4	8	3	1	..	..	..	..	3	29
St. Joseph's .....	..	..	..	..	..	..	..	..	..	..	1	..	1
St. Luke's .....	..	..	6	..	..	..	..	..	2	1	2	..	11
St. Mary's R.C. ....	..	..	..	..	..	..	..	..	..	..	..	2	2
St. Matthew's .....	1	..	..	..	1	..	..	..	..	..	..	..	2
St. Michael's .....	..	..	1	..	..	..	..	..	..	..	..	..	1
St. Paul's .....	..	..	1	..	..	..	..	..	1	1	..	..	3
St. Peter's N. ....	..	..	..	1	..	..	..	..	..	1	1	..	3
" R.C. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Silas' .....	..	..	..	..	3	..	2	..	..	..	..	..	5
St. Stephen's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Thomas' .....	..	..	1	1	..	..	..	..	..	..	2	..	4
Wensley Fold .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Whalley Range .....	..	1	..	..	..	..	..	..	..	..	..	..	1
Witton Infants .....	..	..	..	..	..	..	..	..	..	..	..	..	..
TOTALS ... ..	21	11	40	7	15	3	6	...	5	19	25	31	183

**MUMPS.**

234 cases of Mumps were reported from the Schools during 1911, compared with 146 cases during 1910.

Of these 234 cases, 212 were visited by the Lady Health Visitors.

Of the 212 cases investigated, 121 were males and 91 were females. In 37 cases, or 17.4 per cent., a medical man was in attendance; but in the remaining 175 cases, or 82.5 per cent., no medical man was called in, although the parents were advised to do so.

In 34 cases home isolation was carried out.

The following Table indicates the number of reported cases of Mumps occurring in each School, monthly, during 1911.

TABLE IX.—Mumps in Schools during 1911.

SCHOOL.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Accrington Road .....	1	6	35	1	..	..	..	..	..	1	..	1	45
Audley Range .....	..	..	4	4	..	..	..	..	..	..	..	1	9
All Saints' .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Bank Top .....	..	2	..	..	..	..	..	..	..	..	..	..	2
Cedar Street .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Christ Church .....	1	1	..	..	18	..	..	..	..	1	..	..	21
Emmanuel .....	1	..	..	..	..	..	..	..	..	..	..	..	1
Furthergate .....	..	14	..	..	..	..	..	..	..	..	1	..	15
Four Lanes End .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Griffin .....	..	..	..	..	..	..	..	..	..	..	..	1	1
Holy Trinity .....	2	..	..	..	..	..	..	..	..	..	..	..	2
Lower Darwen C. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
Maudsley Street .....	2	1	..	..	1	..	1	..	1	2	2	1	11
Moss Street .....	..	..	..	..	..	2	..	..	..	..	..	..	2
Mill Hill C. ....	..	..	..	..	..	..	..	..	..	..	..	1	1
Norfolk Street .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Parish Higher Grade ..	..	..	..	..	..	..	..	..	..	..	..	..	..
Public Higher Grade (B)	..	..	..	..	..	..	..	..	..	..	..	..	..
"    "    "    (G)	..	..	1	..	..	..	..	..	..	..	..	..	1
Blakey Moor C. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
Higher Elementary ...	..	..	..	..	..	..	..	..	..	..	..	..	..
Park Road .....	..	..	..	..	..	..	..	..	..	1	..	..	1
Sacred Heart .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Alban's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
"    H.G. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's .....	..	..	6	..	..	..	..	..	..	2	3	..	11
St. Andrew's .....	18	9	3	..	..	..	..	..	..	..	..	..	30
St. Barnabas' .....	4	..	..	2	..	..	..	..	..	1	2	..	9
St. Bartholomew's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Gabriel's .....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. James S.B. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
"    Black-a-Moor ..	..	..	..	..	..	..	..	..	..	..	..	..	..
"    Guide .....	..	..	8	11	1	..	..	..	..	..	..	..	20
St. John's .....	20	..	..	..	..	..	..	..	..	..	..	..	20
St. Joseph's .....	..	1	..	..	..	..	..	..	..	..	1	2	4
St. Luke's .....	..	..	..	..	..	..	..	..	..	..	2	1	3
St. Mary's R.C. ....	..	..	..	..	..	..	..	..	..	..	..	..	..
St. Matthew's .....	1	..	..	..	1	..	..	..	..	..	1	..	3
St. Michael's .....	..	1	..	..	..	..	..	..	..	..	..	..	1
St. Paul's .....	..	..	..	1	..	..	..	..	..	..	1	..	2
St. Peter's N. ....	..	..	..	..	..	..	..	..	..	1	1	..	2
"    R.C. ....	..	..	..	..	..	..	..	..	..	1	..	..	1
St. Silas' .....	2	..	..	..	..	..	..	..	..	..	..	..	2
St. Stephen's .....	..	..	..	..	..	..	..	..	..	1	..	..	1
St. Thomas' .....	..	..	4	1	1	..	..	..	1	1	..	..	8
Wensley Fold .....	..	1	..	..	..	..	..	..	..	..	..	..	1
Whalley Range .....	..	..	3	..	..	..	..	..	..	..	..	..	3
Witton Infants .....	1	..	..	..	..	..	..	..	..	..	..	..	1
TOTALS .....	53	36	60	23	22	3	1	..	2	12	14	8	234

**OTHER CONDITION OF DISEASE REPORTED FROM THE  
SCHOOLS DURING 1911.**

17 other conditions of disease beyond those already mentioned in this section were reported to me by school teachers during 1911, as follows:—

Sore Throat .....	7
Ringworm .....	3
Rash and Feverish .....	5
Eczema .....	2
	<hr/>
	17

**TABLE X.**

**Cases of Scarlet Fever, Diphtheria, and Enteric Fever  
amongst School Children removed to Hospital.**

	Scarlet Fever.	Diphth- eria.	Enteric Fever.
Number of notified cases occurring amongst Children attending School	199	62	10
Number of cases removed to Hospital amongst Children attending School	152	28	8
Percentage of cases removed to Hospital amongst Children attend- ing School .....	76·3	45·1	80·0
Total number of cases notified in the Borough .....	343	107	49
Total number of cases removed to Hospital .....	241	53	38
Percentage of cases removed to Hospital from the whole Borough...	70·2	49·5	77·5







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## ***SECTION IV.***

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**Medical Inspection of School Children in  
Blackburn during 1911.**

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#### IV.—MEDICAL INSPECTION OF SCHOOL CHILDREN IN BLACKBURN DURING 1911.

The method of the Medical Inspection of School Children which has been described in previous Reports has been continued during the year under review.

It is again gratifying to record that the work has been carried on without any friction whatever.

I wish also to acknowledge my indebtedness to the school teachers for their willing and valuable co-operation.

The continued co-ordination which is now established firmly between the Public Health work and the School Medical work in Blackburn has been of especial advantage in dealing with the various Infectious Diseases, and has facilitated the administration of these two important branches of preventive medicine throughout.

The total number of medical examinations of school children made during the year 1911 was 11,465, which is a number far in excess of any recorded in previous years.

These 11,465 children were composed of the following groups:—

A. Entrants .....	6968
B. Children examined for the second time .....	1584
C. Leavers (including half-timers)...	1776
D. Higher Grade School Children—	
Entrants .....	320
Second Examinations .....	290
E. Children referred by the School Attendance Officers .....	506
F. Bursary and Scholarship Holders.	21

It should be noticed that only small numbers of children have been examined in certain age-periods at some of the Schools. Caution should therefore be exercised in comparing the different schools in this respect.

These six groups of children will now be referred to seriatim.

#### A. ENTRANTS OR NEWLY ADMITTED CHILDREN.

The majority of these 6,968 children were below the age of nine years. They consisted of 3,465 boys, and 3,503 girls.

Table XI. shows these children arranged according to age, sex, and the numbers examined at the various Schools.

Tables XII. and XIII. contain particulars for males and females respectively.

The average heights have been recorded in inches and centimetres, and the average weights in pounds and kilogrammes.

The defects found amongst these 6,968 entrants appear in Tables XIV. and XV.

Tables XVI. and XVII. show a comparison between the heights and weights of the Blackburn male and female entrants, and the standard of the Anthropometric Committee of the British Association for the Advancement of Science. This standard will be referred to as "The Standard" for purposes of abbreviation.

At the yearly age-periods from 3 to 9 years, the Blackburn male entrants were above the standard in height, but were below the standard in weight. At the yearly age-periods from 10 to 12 years the Blackburn male entrants were below the standard in height and weight.

The Blackburn female entrants showed an increase in average height over the standard in each yearly age-period from 3 to 12 years.

Between the ages of 3 and 4 years these female entrants were above the standard in weight. At the other yearly age-periods from 4 to 12 years the average weights of the Blackburn female entrants were below the standard.

**TABLE XI.**  
**Numbers and age periods of the newly admitted children examined.**

SCHOOL.	3-4		4-5		5-6		6-7		7-8		8-9		9-10		10-11		11-12		Total		Total
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Acerington Road .....	11	4	17	7	11	14	3	3	1	2	8	3	13	12	18	16	12	20	94	81	175
Audley Range .....	4	4	17	11	20	21	9	5	6	3	...	3	6	7	21	19	14	10	97	83	180
All Saints' .....	8	7	11	9	14	23	2	2	3	1	1	...	2	7	12	15	10	9	63	73	136
Bank Top .....	12	10	14	13	7	4	5	1	3	2	2	3	21	15	11	17	10	15	85	79	164
Blakey Moor C. ....	...	...	...	...	...	...	...	...	4	4	9	3	20	35	29	19	42	32	104	93	197
Cedar Street .....	14	12	29	23	13	13	4	3	2	3	2	2	17	13	20	27	11	4	112	100	212
Christ Church .....	8	11	26	31	34	33	4	7	1	3	1	3	21	9	41	40	4	13	140	150	290
Emmanuel .....	3	3	10	10	13	8	3	4	...	1	...	1	10	15	18	32	15	17	72	91	163
Furthegate .....	7	9	17	8	21	23	5	3	3	2	2	1	4	1	33	25	...	1	92	73	165
Four Leanes End .....	1	1	1	2	5	4	3	4	1	...	...	1	3	2	5	4	...	1	19	19	38
Griffin .....	3	11	14	12	8	2	2	2	1	3	2	4	15	17	11	37	2	14	58	108	166
Holy Trinity .....	1	1	5	7	20	19	5	6	2	2	6	3	15	18	24	28	10	9	88	93	181
Lower Darwen C. ....	4	1	2	1	3	5	...	1	...	...	...	1	5	3	9	11	5	5	28	28	56
Maudsley Street .....	9	5	16	15	14	21	4	4	1	2	1	...	6	4	15	20	7	14	73	85	158
Moss Street .....	8	8	26	16	21	22	8	6	...	2	4	4	33	12	38	31	4	10	141	111	252
Mill Hill C. ....	9	12	16	9	9	18	6	3	...	4	5	19	21	13	22	7	7	6	83	101	184
Norfolk Street .....	2	6	8	7	9	9	2	3	3	1	...	...	9	8	14	7	9	6	60	47	107
Park Road .....	6	7	11	13	21	30	2	7	6	1	1	1	15	14	8	13	4	5	75	91	166
Sacred Heart .....	1	...	3	2	6	3	8	1	2	1	2	...	...	...	3	6	2	...	25	17	42
St. Alban's .....	21	7	36	29	47	34	13	12	21	8	6	8	...	19	36	43	26	21	214	181	395
St. Anne's .....	19	25	21	16	26	16	4	6	5	15	3	4	23	28	21	23	8	11	130	144	274
St. Andrew's .....	3	3	4	6	19	7	...	3	3	2	3	3	7	25	16	16	7	14	64	61	125
St. Barnabas' .....	13	15	17	28	18	20	13	6	1	2	5	4	8	9	19	10	1	4	95	98	193
St. Bartholomew's .....	6	10	9	6	14	8	1	3	3	...	1	2	7	5	15	10	7	11	63	55	118

TABLE XI.—Continued.

Numbers and age periods of newly admitted children examined.

SCHOOL.	3-4		4-5		5-6		6-7		7-8		8-9		9-10		10-11		11-12		Total		Total	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
St. Gabriel's .....	..	..	6	5	10	11	1	2	4	1	2	..	7	7	16	15	1	5	47	46	93	
St. James', Shear Brow .....	2	2	7	2	4	2	1	1	1	3	..	3	4	2	6	6	2	4	27	25	52	
St. James', Black-a-Moor .....	1	4	3	4	2	3	..	..	..	..	..	2	2	2	9	4	6	14	30	44		
St. James', Guide .....	1	..	3	4	3	3	..	2	..	..	..	..	3	2	4	8	4	5	20	24	44	
St. John's .....	7	8	13	8	31	29	8	9	5	7	2	6	26	19	35	29	6	16	133	131	264	
St. Joseph's .....	..	..	3	..	26	24	7	8	2	3	6	6	..	8	26	38	26	21	93	108	201	
St. Luke's .....	8	13	11	10	13	8	2	2	1	4	3	3	12	13	22	26	9	13	81	92	173	
St. Mary's .....	11	7	22	15	19	12	..	4	5	1	2	1	5	12	16	19	32	11	14	96	105	201
St. Matthew's .....	8	6	13	10	15	16	4	5	1	1	1	3	7	11	23	20	20	13	95	85	180	
St. Michael's .....	10	4	25	16	16	13	7	9	3	2	3	2	13	23	17	28	8	12	102	114	216	
St. Paul's .....	1	2	11	16	13	10	5	6	4	6	2	5	8	11	20	34	5	7	69	97	166	
St. Peter's C.E. ....	4	3	5	14	3	8	5	5	2	2	1	3	5	5	8	14	2	9	35	63	98	
St. Peter's, R.C. ....	5	5	10	7	16	10	4	2	1	2	3	2	12	12	25	21	16	9	92	70	162	
St. Silas's .....	3	2	15	6	14	17	14	24	8	7	3	4	6	6	22	17	6	4	91	87	178	
St. Stephen's .....	10	1	23	12	21	15	8	5	1	3	8	2	22	9	13	22	8	10	114	79	193	
St. Thomas' .....	9	6	16	12	17	12	10	4	1	..	..	3	5	35	38	24	23	117	104	221		
Wensley Fold .....	2	6	7	14	12	15	1	4	2	3	2	2	16	15	16	25	13	13	71	97	168	
Whalley Range .....	..	..	11	12	19	22	7	5	2	3	1	1	25	15	5	5	2	1	72	64	136	
Witton Infants .....	5	3	5	4	8	7	1	4	1	1	1	1	..	..	..	..	..	..	21	20	41	
Totals .....	260	244	539	452	635	600	192	196	115	115	102	113	465	467	773	878	384	438	3465	3503	6968	

TABLE XII.  
MALES—Average Heights and Weights.

SCHOOL.	3 TO 4 YEARS.				4 TO 5 YEARS.				5 TO 6 YEARS.			
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms
Accrington Road .....	36.6	93.0	34.3	15.5	39.3	99.8	37.9	17.2	41.1	104.4	40.6	18.4
Audley Range .....	36.4	92.4	35.6	16.1	38.2	97.0	36.3	16.4	40.8	103.6	38.5	17.4
All Saints' .....	36.1	91.7	33.1	15.0	39.2	99.6	38.7	17.5	39.2	99.6	33.2	17.3
Bank Top .....	37.2	94.5	35.7	16.2	37.3	94.7	33.8	15.3	40.7	103.3	38.9	17.6
Blakey Moor C. ....	...	...	...	...	...	...	...	...	...	...	...	...
Cedar Street .....	37.1	94.2	34.4	15.6	38.5	97.8	36.7	16.6	42.0	106.6	42.3	19.2
Christ Church .....	36.6	93.0	33.3	15.1	38.9	98.8	36.0	16.3	40.4	102.6	37.5	17.0
Emmanuel .....	35.2	89.4	31.0	14.0	37.7	95.7	35.7	16.2	41.0	104.1	40.1	18.2
Four Lanes End .....	36.0	91.4	33.1	15.0	38.0	96.5	36.0	16.3	39.5	100.3	37.1	16.8
Furthergate .....	33.5	97.8	34.2	15.5	38.2	97.0	33.7	15.2	40.7	103.3	37.6	17.0
Griffin .....	37.3	94.7	33.3	15.1	39.2	99.6	37.4	16.9	40.2	102.1	37.4	16.9
Holy Trinity .....	34.7	88.1	29.0	13.1	39.7	100.8	36.6	16.6	40.4	102.6	38.8	17.6
Lower Darwen C. ....	37.4	95.0	35.1	15.9	38.5	97.8	35.6	16.1	40.5	102.8	37.3	16.9
Maudsley Street .....	37.2	94.5	33.8	15.3	39.0	99.0	36.6	16.6	40.6	103.1	38.6	17.5
Moss Street .....	36.4	92.4	32.7	14.8	38.9	98.8	36.7	16.6	40.4	102.6	38.9	17.6
Mill Hill C. ....	36.7	93.2	32.3	14.6	38.8	98.5	36.6	16.6	39.3	99.8	37.2	16.8
Norfolk Street .....	35.8	90.9	31.3	14.2	38.0	96.5	36.3	16.4	40.5	102.8	37.4	16.9
Park Road .....	35.7	90.7	32.8	14.9	37.8	96.0	34.7	15.7	40.2	102.1	40.6	18.4
Sacred Heart .....	41.0	104.1	37.5	17.0	40.9	103.9	38.2	17.3	41.5	104.1	38.2	17.3
St. Alban's .....	34.9	88.6	31.3	14.2	37.7	95.7	35.9	16.3	40.3	102.4	39.6	17.9
St. Anne's .....	35.6	90.4	33.4	15.1	36.9	93.7	34.4	15.6	39.1	99.3	38.0	17.2
St. Andrew's .....	36.5	92.7	31.8	14.4	38.9	98.8	36.5	16.5	40.9	103.9	39.5	17.9
St. Barnabas' .....	36.6	93.0	33.3	15.1	38.9	98.8	35.2	16.0	40.2	102.1	38.9	17.6



TABLE XII.—Continued.  
MALES—Average Heights and Weights.

SCHOOL.	3 TO 4 YEARS.				4 TO 5 YEARS.				5 TO 6 YEARS.			
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms
St. Bartholomew's ...	36.8	93.4	34.9	15.8	38.7	98.3	36.5	16.5	40.3	102.4	39.0	17.7
St. Gabriel's .....	...	...	...	...	39.9	98.8	36.1	16.4	41.5	105.4	38.8	17.6
St. James', Shear Br'w	37.8	96.0	34.2	15.5	38.2	97.0	34.8	15.7	43.7	111.0	44.8	20.3
" Black-a-M'r	37.0	94.0	35.7	16.2	38.2	97.0	38.7	17.5	42.5	107.9	42.5	19.3
" Guide .....	38.0	96.5	35.5	16.1	40.7	103.3	40.7	18.4	39.6	100.6	34.9	15.8
St. John's .....	36.2	92.0	33.9	15.4	39.0	99.0	35.3	16.0	41.0	104.1	35.4	16.0
St. Joseph's .....	...	...	...	...	38.8	98.5	36.4	16.5	39.0	99.0	36.4	16.5
St. Luke's .....	36.1	91.7	33.5	15.2	38.5	97.8	35.8	16.2	40.4	102.6	39.1	17.7
St. Mary's .....	36.3	92.2	33.3	15.3	38.6	98.0	35.7	16.2	39.6	100.6	37.7	17.1
St. Matthew's .....	36.1	91.7	34.6	15.7	39.2	99.6	39.6	17.9	41.1	104.4	39.3	17.8
St. Michael's .....	35.6	90.4	32.5	14.7	38.1	96.7	36.0	16.3	40.0	101.6	39.9	18.1
St. Paul's .....	39.2	99.6	38.7	17.5	37.8	96.0	34.2	15.5	41.3	104.9	40.1	18.2
St. Peter's C.E. ....	37.0	94.0	33.2	15.0	33.0	99.0	37.6	17.0	38.0	96.5	34.2	15.5
" R.C. ....	36.6	93.0	35.1	15.9	39.2	99.6	38.1	17.3	40.7	103.3	39.8	18.0
St. Silas' .....	36.7	93.2	32.5	14.7	40.7	103.3	38.7	17.5	42.0	106.6	39.1	17.7
St. Stephen's .....	38.0	96.5	35.6	16.1	39.1	99.3	38.3	17.3	40.2	102.1	39.1	17.7
St. Thomas' .....	35.7	90.7	31.7	14.4	38.4	97.5	35.6	16.1	40.5	102.8	38.3	17.3
Wensley Fold .....	35.5	90.2	30.8	13.9	38.3	97.3	36.2	16.4	39.9	101.3	37.2	16.8
Whalley Range .....	...	...	...	...	38.4	97.5	35.5	16.1	41.1	104.4	39.7	18.0
Witton Infants .....	37.1	94.2	32.7	14.8	38.2	97.0	35.3	16.0	41.2	104.6	36.8	16.7
Averages .....	36.8	93.4	33.6	15.2	38.7	98.3	36.4	16.5	40.5	102.8	38.7	17.5

TABLE XII.—Continued.  
MALES—Average Heights and Weights.

SCHOOL.	6 TO 7 YEARS.					7 TO 8 YEARS.					8 TO 9 YEARS.				
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in kilograms
Accrington Road .....	45.0	114.3	47.7	21.6	40.2	102.1	46.0	20.8	47.5	120.6	51.5	23.3	47.5	120.6	23.3
Audley Range .....	43.2	109.7	42.7	19.3	44.4	112.8	47.3	21.4	48.0	121.9	58.2	26.4	48.0	121.9	26.4
Ali Saints' .....	44.0	111.7	44.8	20.3	42.7	108.4	43.3	19.6	49.6	126.0	60.1	27.3	49.6	126.0	27.3
Bank Top .....	40.8	103.6	40.3	18.3	41.8	106.2	43.2	19.6	48.2	122.4	53.6	24.3	48.2	122.4	24.3
Blakey Moor C. ....	...	...	...	...	45.6	115.8	46.8	21.2	47.5	120.6	54.5	24.7	47.5	120.6	24.7
Cedar Street .....	43.1	109.4	43.0	19.5	48.2	122.4	53.6	24.3	47.2	119.9	57.2	25.5	47.2	119.9	25.5
Christ Church .....	40.1	101.8	35.7	16.2	44.7	113.5	43.2	19.6	...	...	...	...	...	...	...
Emmanuel .....	42.8	108.7	41.2	18.7	...	...	...	...	46.1	117.1	50.2	22.7	46.1	117.1	22.7
Furthergate .....	40.5	102.8	38.7	17.5	44.0	111.7	44.3	20.1	...	...	...	...	...	...	...
Four Lanes End .....	40.8	103.6	36.7	16.6	45.5	115.6	44.0	19.9	48.1	122.2	54.2	24.6	48.1	122.2	24.6
Griffin .....	43.3	110.0	45.0	20.4	44.7	113.5	50.5	22.9	46.5	118.1	50.8	23.0	46.5	118.1	23.0
Holy Trinity .....	42.1	106.9	40.7	18.4	47.0	119.4	51.1	23.1	...	...	...	...	...	...	...
Lower Darwen C. ....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Maudsley Street .....	41.4	105.1	41.3	18.7	46.7	118.6	50.0	22.7	47.5	120.6	54.2	24.6	47.5	120.6	24.6
Moss Street .....	41.9	106.4	41.1	18.6	...	...	...	...	46.7	118.6	50.2	22.7	46.7	118.6	22.7
Mill Hill C. ....	40.3	102.4	37.4	16.9	...	...	...	...	45.8	116.3	51.9	23.5	45.8	116.3	23.5
Norfolk Street .....	40.6	103.1	40.6	18.4	45.7	116.0	49.0	22.2	47.4	120.4	52.5	23.8	47.4	120.4	23.8
Park Road .....	42.8	108.7	44.3	20.1	43.2	109.7	45.1	20.4	46.2	117.4	49.2	22.3	46.2	117.4	22.3
Sacred Heart .....	43.7	111.0	43.8	19.8	45.5	115.6	48.6	22.0	...	...	...	...	...	...	...
St. Alban's .....	41.9	106.4	41.7	18.9	43.7	111.0	44.1	20.0	46.5	118.1	54.2	24.6	46.5	118.1	24.6
St. Anne's .....	43.0	109.2	44.9	20.3	44.8	113.8	47.9	21.7	46.9	119.1	51.7	23.4	46.9	119.1	23.4
St. Andrew's .....	...	...	...	...	44.2	112.2	47.2	21.4	...	...	...	...	...	...	...
St. Barnabas' .....	42.1	106.9	40.5	18.3	44.7	113.5	44.2	20.0	48.1	122.2	51.8	23.5	48.1	122.2	23.5



TABLE XII.—Continued.  
MALES—Average Heights and Weights.

SCHOOL.	6 TO 7 YEARS.				7 TO 8 YEARS.				8 TO 9 YEARS.			
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms
St. Bartholomew's ..	43.0	109.2	43.0	19.5	47.7	121.1	51.1	23.1	46.2	117.4	48.0	21.7
St. Gabriel's .....	43.5	110.5	39.7	18.0	45.5	115.6	47.9	21.7	45.3	115.0	46.8	21.2
St. James', Shear Br'w	42.5	107.9	43.0	19.5	48.7	123.7	55.0	24.9	...	...	...	...
"    Black-a-M'r	...	...	...	...	...	...	...	...	...	...	...	...
"    Guide .....	40.0	101.6	40.2	18.2	...	...	...	...	44.0	111.7	43.5	19.7
St. John's .....	43.1	109.4	39.6	17.9	45.9	116.6	48.3	21.9	49.1	124.7	52.6	23.8
St. Joseph's .....	42.3	107.4	43.5	19.7	43.8	111.2	46.3	21.0	46.3	117.6	49.9	22.6
St. Luke's .....	43.0	109.2	42.0	19.0	39.5	100.3	34.5	15.6	47.1	119.6	53.0	24.0
St. Mary's .....	...	...	...	...	47.7	121.1	58.0	26.3	50.0	127.0	58.0	26.3
St. Matthew's .....	43.4	110.2	42.9	19.4	45.0	114.3	46.5	21.1	47.6	120.9	54.8	24.8
St. Michael's .....	41.3	104.9	42.1	19.1	44.3	112.5	47.3	21.4	46.9	119.1	55.3	25.1
St. Paul's .....	41.8	106.2	42.5	19.3	44.7	113.5	46.5	21.1	45.2	114.8	47.2	21.4
St. Peter's C.E. ....	41.8	106.2	40.7	18.4	47.8	121.4	42.8	19.4	50.5	128.2	58.5	26.5
"    R.C. ....	43.0	109.2	44.6	20.2	45.0	114.3	48.2	21.8	45.2	114.8	49.2	22.3
St. Silas' .....	43.5	110.5	43.3	19.6	46.6	118.4	48.8	22.1	46.9	119.1	50.5	22.9
St. Stephen's .....	42.5	107.9	43.8	19.8	46.7	118.6	43.5	22.0	47.3	120.2	53.5	24.3
St. Thomas' .....	40.9	103.9	38.8	17.6	44.5	113.0	43.0	19.5	...	...	...	...
Wensley Fold .....	40.2	102.1	41.5	18.8	45.8	116.3	48.5	22.0	48.1	122.2	53.5	24.3
Whalley Range .....	42.2	107.2	41.3	18.7	46.9	119.1	56.8	25.6	43.0	109.2	46.7	21.2
Witton Infants .....	44.7	113.5	44.7	20.2	46.5	118.1	50.5	22.9	45.2	114.8	42.7	19.3
Averages .....	42.3	107.4	41.8	18.9	45.1	114.5	47.5	21.5	47.0	119.4	52.0	23.6

TABLE XII.—Continued.  
MALES.—Average Heights and Weights.

SCHOOL	9 TO 10 YEARS.				10 TO 11 YEARS.				11 TO 12 YEARS.			
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms
Accrington Road .....	48.9	124.2	56.8	25.7	50.9	129.3	61.9	28.1	51.7	131.3	65.0	29.5
Audley Range .....	49.6	126.0	56.5	25.6	51.4	130.6	62.1	28.1	52.3	132.8	63.3	28.7
All Saints' .....	47.1	119.6	53.5	24.3	50.5	128.2	60.8	27.5	51.5	130.8	65.2	29.6
Bank Top .....	47.9	121.7	54.7	24.6	50.5	128.2	59.8	27.1	51.6	131.0	63.3	28.7
Blakey Moor C. ....	50.8	129.0	60.4	27.4	52.3	132.8	65.7	29.8	54.7	138.9	72.4	32.8
Cedar Street .....	49.9	126.7	59.4	26.9	50.7	128.8	60.5	27.4	53.2	135.2	69.1	31.3
Christ Church .....	49.8	126.5	57.0	25.8	50.8	129.0	61.0	27.7	53.7	136.4	68.5	31.0
Emmanuel .....	49.1	124.7	58.7	26.6	50.4	128.0	59.3	26.9	52.3	132.8	65.1	29.5
Furthegate .....	48.1	122.2	54.4	24.7	49.4	125.5	58.3	26.4	...	...	...	...
Four Lanes End .....	50.4	128.0	60.3	27.3	52.2	132.6	67.8	30.7	...	...	...	...
Griffin .....	49.4	125.5	56.3	25.5	50.9	129.3	61.4	27.8	53.5	135.9	71.2	32.3
Holy Trinity .....	48.0	121.9	54.1	24.5	49.2	125.0	56.6	25.6	51.6	131.0	64.3	29.1
Lower Darwen C. ....	50.1	127.2	60.7	27.5	52.3	132.8	62.9	28.5	51.0	129.5	60.2	27.3
Maudsley Street .....	47.7	121.1	54.7	24.6	50.9	129.3	60.4	27.4	52.4	133.1	64.5	29.2
Moss Street .....	48.3	123.9	57.0	25.8	50.6	128.5	60.5	27.4	51.6	131.0	65.3	29.6
Mill Hill C. ....	48.3	122.7	53.4	24.2	50.8	129.0	59.2	26.8	51.6	131.0	64.0	29.0
Norfolk Street .....	48.6	123.4	57.9	26.2	50.4	128.0	57.4	26.0	51.7	131.3	62.1	28.1
Park Road .....	47.8	121.4	54.3	24.6	49.6	126.0	58.8	26.6	51.7	131.3	65.0	29.5
Sacred Heart .....	...	...	...	...	50.3	127.7	51.3	23.2	50.2	127.5	55.3	25.1
St. Alban's .....	50.0	127.0	62.5	28.3	50.2	127.5	60.2	27.3	51.2	130.0	63.8	28.9
St. Anne's .....	48.3	122.7	55.3	25.1	49.3	125.2	56.7	26.6	51.2	130.0	63.7	28.9
St. Andrew's .....	49.5	125.7	59.0	26.7	50.7	128.8	60.9	27.6	55.0	139.7	75.2	34.1
St. Barnabas' .....	49.3	125.2	56.6	25.6	50.0	127.0	56.7	25.7	56.2	142.8	71.2	32.3



TABLE XIII.  
FEMALES—Average Heights and Weights.

SCHOOL.	3 TO 4 YEARS.				4 TO 5 YEARS.				5 TO 6 YEARS.			
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms
Accrington Road .....	36.6	93.0	32.8	14.9	39.2	99.6	36.6	16.6	40.7	103.3	39.2	17.8
Audley Range .....	36.4	92.4	32.4	14.7	39.1	99.3	37.4	16.9	40.5	102.8	37.9	17.2
All Saints' .....	35.7	90.7	32.5	14.7	38.1	96.7	35.9	16.3	39.5	100.3	37.1	16.8
Bank Top .....	35.7	90.7	30.6	13.9	37.9	96.2	35.0	15.8	38.5	97.8	34.0	15.4
Blakey Moor C. ....	...	...	...	...	...	...	...	...	...	...	...	...
Cedar Street .....	37.2	94.5	33.7	15.2	38.0	96.5	34.8	15.7	39.8	101.1	35.7	16.2
Christ Church .....	36.7	93.2	32.1	14.5	38.9	98.8	35.3	16.0	40.1	101.8	36.4	16.5
Emmanuel .....	36.2	92.0	24.8	15.7	38.2	97.0	35.9	16.3	38.7	98.3	35.5	16.1
Furthegate .....	36.4	92.4	32.4	14.7	37.5	95.2	34.5	15.6	39.4	100.1	36.4	16.5
Four Lanes End .....	39.0	99.0	38.5	17.4	39.7	100.8	39.2	17.8	41.8	106.2	40.3	18.3
Griffin .....	36.0	91.4	32.5	14.7	37.9	96.2	33.8	15.3	40.3	102.4	35.5	16.1
Holy Trinity .....	37.0	94.0	32.5	14.7	37.6	95.5	35.4	16.0	39.7	100.8	37.5	17.0
Lower Dalwen C. ....	37.2	94.5	35.5	16.1	40.2	102.1	34.5	15.6	41.8	106.2	39.8	18.0
Maudsley Street .....	36.7	93.2	33.8	15.3	37.7	95.7	35.4	16.0	40.6	103.1	37.3	16.9
Moss Street .....	37.4	95.0	35.6	16.1	38.3	97.3	34.5	15.6	39.4	100.1	36.3	16.4
Mill Hill C. ....	36.6	93.0	33.1	15.0	38.3	97.3	36.7	16.6	40.5	102.8	31.9	14.5
Norfolk Street .....	37.0	94.0	31.1	14.1	37.9	96.2	35.8	16.2	40.6	103.1	36.6	16.6
Park Road .....	37.5	95.2	35.7	16.2	38.6	98.0	35.5	16.1	40.0	101.6	37.5	17.0
Sacred Heart .....	...	...	...	...	39.5	100.3	36.6	16.6	41.5	105.4	36.7	16.6
St. Alban's .....	35.9	91.2	31.2	14.1	37.9	96.2	34.8	15.7	39.2	99.6	36.1	16.4
St. Anne's .....	34.8	88.5	31.3	14.2	37.2	94.5	34.2	15.5	39.7	100.8	37.2	16.8
St. Andrew's .....	34.8	88.5	31.1	14.1	38.9	98.8	35.1	15.9	39.7	100.8	37.3	16.9
St. Barnabas' .....	36.5	92.7	33.0	15.0	39.2	99.6	35.5	16.1	40.4	102.6	37.7	17.1





TABLE XIII.—Continued.  
FEMALES.—Average Heights and Weights.

SCHOOL.	6 TO 7 YEARS.				7 TO 8 YEARS.				8 TO 9 YEARS.			
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in grammes	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in grammes	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in grammes
Accrington Road .....	39.1	99.3	39.8	18.0	45.5	115.6	47.0	21.3	46.9	119.1	49.2	22.3
Audley Range .....	42.9	109.0	41.0	18.6	46.2	117.4	48.3	21.9	47.6	120.9	51.8	23.5
All Saints' .....	42.5	107.9	41.1	18.6	44.5	113.0	51.2	23.2	...	...	...	...
Bank Top .....	39.0	99.0	33.2	15.0	43.6	110.7	45.1	20.4	45.1	114.5	45.0	20.4
Blakey Moor C. ....	...	...	40.4	...	47.2	119.6	51.9	23.5	48.2	122.4	54.2	24.6
Cedar Street .....	42.0	106.6	40.1	18.2	47.5	120.6	53.2	24.1	50.0	127.0	56.7	25.7
Christ Church .....	40.6	103.1	36.4	16.5	44.3	112.5	44.2	20.0	46.3	117.6	50.5	22.9
Emmanuel .....	42.7	108.4	40.9	18.5	48.5	123.2	49.7	22.5	47.5	120.6	53.5	24.2
Furthergate .....	43.3	110.0	41.0	18.6	42.8	108.7	42.1	19.1	44.7	113.5	41.0	18.6
Four Lanes End .....	42.8	108.7	41.2	18.7	...	...	...	...	45.0	114.3	42.5	19.3
Griffin .....	41.8	106.2	41.0	18.6	46.5	118.1	45.2	20.5	46.0	116.8	44.9	20.3
Holy Trinity .....	44.2	112.2	47.7	21.6	...	...	...	...	47.2	119.9	50.7	23.0
Lower Darwen C. ....	42.4	107.7	39.6	17.9	48.2	122.4	51.4	23.3	47.5	120.6	48.2	21.8
Maudsley Street .....	42.2	107.2	39.6	17.9	43.3	110.0	41.9	19.0	...	...	...	...
Moss Street .....	41.4	105.1	41.9	19.0	46.8	118.9	50.3	22.8	46.3	117.6	49.9	22.6
Mill Hill C. ....	44.1	112.0	45.4	20.6	48.0	121.9	54.5	24.7	45.0	114.3	48.4	21.9
Norfolk Street .....	40.7	103.3	38.0	17.2	44.2	112.2	37.0	16.8	...	...	...	...
Park Road .....	44.2	112.2	45.6	20.7	43.7	111.0	41.0	18.6	45.2	114.8	52.0	23.6
Sacred Heart .....	42.6	108.2	42.4	19.2	43.3	110.0	41.7	18.9	45.4	115.3	44.5	20.2
St. Alban's .....	41.9	106.4	41.2	18.7	43.7	111.0	44.8	20.3	46.2	117.4	49.9	22.6
St. Anne's .....	42.9	109.0	40.5	18.3	43.7	111.0	44.8	20.3	44.0	111.7	46.8	21.2
St. Andrew's .....	43.8	111.2	42.6	19.3	46.5	118.1	49.0	22.2	46.7	118.6	51.0	23.1
St. Barnabas' .....	...	...	...	...	46.8	118.9	49.6	22.5	47.0	119.4	48.5	22.0

TABLE XIII.—Continued.  
FEMALES.—Average Heights and Weights.

SCHOOL.	6 TO 7 YEARS.			7 TO 8 YEARS.			8 TO 9 YEARS.		
	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	
St. Bartholomew's ..	41.4	105.1	42.0	19.0	...	...	51.6	131.0	26.8
St. Gabriel's .....	43.6	110.7	46.6	21.1	47.5	120.6	...	...	...
St. James', Shear Br'w ..	39.0	99.0	33.2	15.0	44.8	113.8	46.2	117.4	20.0
" Black-a-M'r .....	...	...	...	...	...	...	57.2	145.3	24.0
St. John's .....	39.5	100.3	36.6	16.6	...	...	...	...	...
St. Joseph's .....	42.9	109.0	41.8	18.9	44.6	113.2	44.7	117.6	21.0
St. Luke's .....	40.9	103.9	38.9	17.6	43.7	111.0	43.2	113.8	21.6
St. Mary's .....	40.2	102.1	39.2	17.8	44.7	113.5	45.4	118.9	23.9
St. Matthew's .....	41.6	105.6	37.6	17.0	42.6	108.2	41.0	112.0	19.7
St. Michael's .....	43.3	110.0	41.4	18.8	39.7	100.8	36.5	115.6	22.5
St. Paul's .....	41.9	106.4	42.3	19.2	44.3	112.5	45.0	119.9	20.3
St. Peter's C.E. ....	41.8	106.2	39.4	17.8	44.1	112.0	44.6	116.0	22.1
" R.C. ....	43.7	111.0	43.3	19.6	43.7	111.0	44.8	122.7	23.9
St. Silas' .....	41.7	105.9	36.6	16.6	46.0	116.8	47.1	119.6	22.2
St. Stephen's .....	43.2	109.7	41.6	18.8	44.5	113.0	46.1	117.1	21.9
St. Thomas' .....	41.4	105.1	40.2	18.2	43.7	111.0	45.2	122.4	20.4
Wensley Fold .....	40.8	103.6	38.2	17.3	39.7	100.8	35.2	114.8	20.4
Whalley Range .....	42.4	107.7	40.7	18.4	45.3	115.0	46.2	117.4	22.1
Witton Infants .....	40.8	103.6	39.3	18.0	44.1	112.0	46.1	125.0	24.3
	42.2	107.2	38.5	17.4	45.7	116.0	48.0	121.9	20.2
Averages .....	42.0	106.6	40.4	18.3	44.8	113.8	46.9	119.1	22.2
							49.0		

TABLE XIII.—Continued.  
FEMALES.—Average Heights and Weights.

SCHOOL.	9 TO 10 YEARS.				10 TO 11 YEARS.				11 TO 12 YEARS.			
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms
Accrington Road .....	49.2	125.0	58.2	26.4	50.4	128.0	60.4	27.4	52.8	134.1	64.8	29.4
Audley Range .....	47.9	121.7	50.2	22.8	49.9	126.7	56.1	25.4	53.0	134.6	62.9	28.5
All Saints' .....	48.6	123.4	55.9	25.9	49.4	125.5	56.2	25.5	50.6	128.5	59.4	26.9
Bank Top .....	47.4	120.4	52.8	23.9	50.6	128.5	61.7	28.0	52.3	132.8	65.2	29.5
Blakey Moor C. ....	49.6	126.0	56.5	25.6	51.7	131.3	62.3	28.2	53.5	135.9	67.2	30.5
Cedar Street .....	48.6	123.4	53.9	24.4	50.3	127.7	59.1	26.8	51.7	131.3	61.5	27.9
Christ Church .....	49.2	125.0	53.8	24.4	49.5	125.7	57.1	25.9	50.9	129.3	61.3	27.8
Emmanuel .....	48.7	123.7	52.9	24.0	50.6	128.5	58.9	26.7	51.4	130.5	62.5	28.3
Furthegate .....	44.2	112.2	44.5	20.2	49.2	125.0	56.5	25.6	49.2	125.0	65.2	29.5
Four Lanes End .....	49.1	124.7	60.0	27.2	48.4	122.9	55.9	25.3	54.5	138.4	64.7	29.3
Griffin .....	48.5	123.2	53.8	24.4	50.5	128.2	58.6	26.6	51.2	130.0	61.1	27.7
Holy Trinity .....	48.0	121.9	53.6	24.3	50.0	127.0	60.6	27.5	50.1	127.2	60.1	27.2
Lower Darwen C. ....	50.1	127.2	57.2	25.9	49.9	126.7	55.8	25.3	52.1	132.3	71.2	32.3
Maudsley Street .....	48.3	122.7	57.1	25.9	49.7	126.2	56.1	25.4	51.2	130.0	61.0	27.6
Moss Street .....	48.1	122.2	53.1	24.1	50.4	128.0	59.9	27.1	50.7	128.7	60.1	27.2
Mill Hill C. ....	48.6	123.4	52.9	24.0	50.5	128.2	57.7	26.1	51.9	131.8	60.5	27.4
Norfolk Street .....	49.5	125.7	55.1	25.0	51.1	129.8	61.6	27.9	50.8	129.0	59.1	26.8
Park Road .....	47.6	120.9	50.7	23.0	50.3	127.7	59.7	27.1	50.8	129.0	60.3	27.3
Sacred Heart .....					52.9	134.4	64.8	29.4	...	...	...	...
St. Alban's .....	47.1	119.6	51.3	23.2	49.5	125.7	56.1	25.4	50.6	128.5	59.5	27.0
St. Anne's .....	47.7	121.1	54.2	24.6	47.9	121.7	52.9	24.0	52.6	133.6	66.9	30.3
St. Andrew's .....	48.8	123.9	54.4	24.6	50.9	129.3	60.9	27.6	51.8	131.6	63.3	28.7
St. Barnabas' .....	48.5	123.2	51.9	23.5	50.4	128.0	55.5	25.2	51.1	129.8	59.2	26.8



TABLE XIII.—Continued.  
FEMALES.—Average Heights and Weights.

SCHOOL	9 TO 10 YEARS.				10 TO 11 YEARS.				11 TO 12 YEARS.			
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in grammes	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in grammes	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in grammes
St. Bartholomew's ...	48.2	122.4	53.5	24.2	50.5	128.2	61.3	27.8	52.0	132.0	61.8	28.0
St. Gabriel's .....	50.6	128.5	61.4	27.8	51.8	131.6	63.3	28.7	52.8	134.1	63.0	28.5
St. James, Shear Br'w	50.6	128.5	62.1	28.1	50.9	129.3	60.1	27.2	51.9	131.8	62.7	28.4
Black-a-M'r	51.6	131.0	54.8	24.8	50.2	127.5	57.3	26.0	53.1	134.9	67.5	30.6
" Guide .....	47.7	121.1	47.2	21.4	50.7	128.7	57.6	26.1	52.2	132.5	63.3	28.7
St. John's .....	48.9	124.2	51.6	23.4	50.5	128.2	56.5	25.6	52.3	132.8	64.0	29.0
St. Joseph's .....	48.6	123.4	54.9	24.9	49.3	125.2	56.2	25.5	51.3	130.3	62.1	28.1
St. Luke's .....	48.4	122.9	51.8	23.5	49.9	126.7	58.0	26.3	51.6	131.0	61.2	27.7
St. Mary's .....	47.8	121.4	52.6	23.8	49.9	126.7	56.9	25.8	50.5	128.2	59.2	26.8
St. Matthew's .....	49.0	124.4	53.3	24.2	49.6	126.0	56.2	25.5	52.7	133.8	66.5	30.1
St. Michael's .....	48.2	122.4	54.2	24.6	49.9	126.7	59.7	27.1	50.0	127.0	58.6	26.6
St. Paul's .....	47.3	120.1	49.6	22.5	49.7	126.2	56.2	25.5	50.9	129.3	60.8	27.6
St. Peter's (C.E. ....	49.3	125.2	54.8	24.8	50.0	127.0	60.7	27.5	51.9	131.8	61.1	27.7
" R.C. ....	48.3	122.7	53.8	24.4	49.5	125.7	56.9	25.8	52.1	130.0	61.3	27.8
St. Silas' .....	50.2	127.5	54.3	24.6	51.2	130.0	59.2	26.8	52.2	132.5	60.6	27.5
St. Stephen's .....	48.2	122.4	53.9	24.4	51.5	130.8	62.5	28.3	51.8	131.6	60.9	27.6
St. Thomas' .....	47.6	120.9	50.8	23.0	49.1	124.7	56.7	25.7	52.2	132.5	66.3	30.1
Wensley Fold .....	49.5	125.7	56.4	25.6	50.4	128.0	59.2	26.8	52.0	132.0	66.2	30.0
Whalley Range .....	48.4	122.9	53.9	24.4	46.4	117.9	52.9	24.0	52.0	132.0	70.7	32.0
Witton Infants .....	...	...	...	...	...	...	...	...	...	...	...	...
Averages .....	48.6	123.4	53.9	24.4	50.1	127.2	58.4	26.5	51.7	131.3	62.8	28.5

TABLE XIV.

Conditions, Defects, etc., found in the 6968 newly admitted children examined.

SCHOOL	Nutrition.		Clothing.		Footgear.		Cleanliness.		Teeth.		Nose & Thr't		Ext. Eye Dis.		Ext. Ear Dis.							
	Excellent.	Good.	Medium.	Bad	Good.	Medium.	Bad.	Good.	Medium.	Bad.	Good.	Defective.	Good.	Defective.	Good.	Defective.						
Accrington Road .....	14	147	14	...	56	113	9	166	7	89	77	9	23	72	80	158	17	171	4	173	2	
Audley Range .....	10	152	18	...	43	132	5	167	10	99	70	11	24	67	89	160	20	176	4	179	1	
All Saints' .....	9	111	15	...	1	30	97	9	124	10	62	56	18	25	44	121	15	135	1	134	2	
Bank Top .....	9	135	20	...	25	133	6	147	14	3	68	79	17	18	52	94	153	11	159	5	161	3
Blakey Moor C. ....	6	144	47	...	147	50	...	191	9	...	153	44	...	23	125	49	179	18	197	...	197	...
Cedar Street .....	20	173	19	...	53	157	...	2	199	13	132	71	9	31	79	102	182	30	207	5	208	4
Christ Church .....	6	247	37	...	135	140	15	219	69	2	158	112	20	64	146	80	224	66	276	14	287	3
Emmanuel .....	...	111	52	...	37	112	14	64	88	11	65	91	7	25	103	35	125	38	154	9	163	...
Furthergate .....	2	122	40	1	35	116	14	78	77	10	66	85	14	50	70	45	125	40	152	13	163	2
Four Lanes End .....	4	30	4	...	17	21	...	33	4	1	27	9	2	4	10	24	32	6	38	...	36	2
Griffin .....	7	136	22	1	58	106	2	156	9	1	96	53	17	18	54	94	157	9	158	8	165	1
Holy Trinity .....	2	119	48	12	50	115	16	142	28	11	75	81	25	20	83	78	167	14	169	12	180	1
Lower Darwen C. ....	2	40	14	...	27	27	2	36	18	2	30	23	3	15	31	10	37	19	54	2	56	...
Maudsley Street .....	9	142	7	...	34	116	8	135	20	3	81	61	16	31	56	71	148	10	156	2	157	1
Moss Street .....	18	207	27	...	72	168	12	238	14	...	129	111	12	32	91	129	229	23	242	10	251	1
Mill Hill C. ....	7	154	23	...	41	139	4	165	15	4	90	66	28	18	53	113	163	21	176	8	183	1
Norfolk Street .....	7	53	45	2	44	59	4	74	32	1	53	49	5	15	48	44	64	43	100	7	104	3
Park Road .....	10	126	29	1	33	125	8	154	9	3	76	72	18	26	44	96	152	14	160	6	166	...
Sacred Heart .....	5	28	9	...	27	14	1	33	3	...	37	4	1	5	11	26	33	4	42	...	42	...
St. Alban's .....	25	297	72	1	55	293	47	322	57	16	138	215	42	44	161	190	357	38	374	21	387	8
St. Anne's .....	20	219	35	...	33	197	44	212	44	18	79	145	50	60	97	117	248	26	260	14	272	2
St. Andrew's .....	2	69	52	2	26	37	12	56	60	9	41	74	10	17	61	47	86	39	117	8	125	...
St. Barnabas' .....	5	174	14	...	68	115	10	161	25	7	105	67	21	44	59	90	170	23	189	4	192	1

TABLE XIV.—Continued.

Conditions, Defects, etc., found in the 6968 newly admitted children examined.

SCHOOL.	Nutrition.			Clothing.			Footgear.			Cleanliness.			Teeth.			Nose & Thr't.		Ext. Eye Dis.		Ext. Ear Dis.	
	Excellent.	Good.	Medium.	Bad.	Good.	Medium.	Bad.	Good.	Medium.	Bad.	Good.	Medium.	Bad.	Good.	Medium.	Good.	Defective.	Good.	Defective.	Good.	Defective.
St. Bartholomew's ..	2	101	15	...	42	70	6	76	40	2	61	50	7	28	51	39	88	30	110	117	1
St. Gabriel's .....	7	78	8	...	43	49	1	90	2	1	68	19	6	6	35	52	84	9	88	93	...
St. James', Shear Br'w	4	38	10	...	11	40	1	45	6	1	33	16	3	8	12	32	50	2	50	52	...
"  Black-a-M'r	1	30	13	...	23	20	1	32	12	...	23	15	3	10	23	11	34	10	41	42	2
"  Guide .....	2	28	14	...	15	27	2	30	14	...	19	22	3	5	19	20	37	7	39	44	...
St. John's .....	23	205	35	1	104	152	8	239	25	...	164	74	26	27	81	156	242	22	259	262	2
St. Joseph's .....	3	152	44	2	36	138	27	95	99	6	65	117	19	18	102	81	161	40	186	199	2
St. Luke's .....	15	133	25	...	45	117	11	136	11	6	73	82	18	27	59	87	151	22	162	171	2
St. Mary's .....	11	164	26	...	23	153	25	175	22	4	56	123	22	26	74	101	185	13	193	201	...
St. Matthew's .....	18	150	12	...	46	118	16	161	16	3	87	75	18	21	67	92	163	17	176	178	2
St. Michael's .....	22	163	28	3	33	165	18	185	22	9	14	130	22	31	67	118	186	30	211	214	2
St. Paul's .....	2	120	43	1	52	105	9	127	29	10	94	58	14	41	63	62	148	18	158	165	1
St. Peter's C.E. ....	5	81	12	...	21	73	4	82	11	5	43	48	7	15	34	49	90	8	93	98	...
"  R.C. ....	6	143	13	...	15	132	15	132	25	5	62	82	18	16	51	95	157	5	160	159	3
St. Silas' .....	5	151	22	...	97	78	3	171	7	...	135	35	8	34	48	96	166	12	176	178	...
St. Stephen's .....	13	162	18	...	45	140	8	180	11	2	118	67	8	27	75	91	184	9	190	190	3
St. Thomas' .....	5	172	44	...	63	144	14	133	85	3	97	100	24	45	119	57	161	60	203	219	2
Wensley Fold .....	18	133	17	...	48	115	4	143	14	6	79	73	16	23	56	89	149	19	161	164	2
Whalley Range .....	15	113	8	...	41	91	4	116	19	1	82	44	10	10	46	80	121	15	130	135	4
Witton Infants .....	5	33	3	...	26	14	1	32	9	...	35	3	3	6	8	27	37	4	38	41	...
Total .....	381	5486	1073	28	1975	4574	419	5382	1111	175	3407	2948	613	1056	2707	3205	6069	899	6686	6903	65

**TABLE XV.**  
**Conditions, etc., found amongst the 6968 newly admitted**  
**Children examined.**

	Excellent.	Good.	Medium.	Bad.
	Percentage	Percentage	Percentage	Percentage
Nutrition .....	5·4	78·7	15·4	0·4
Clothing .....	...	28·3	65·6	6·0
Footgear ... ..	...	81·5	15·9	2·5
Cleanliness .....	...	48·9	42·3	8·8
Teeth .....	...	15·1	38·8	46·0

	Good.	Defective.
	Percentage	Percentage
Nose and Throat .....	87·1	12·9
External Eye Effects .....	95·9	4·0
External Ear Defects (Otorrhœa) .....	99·0	0·9

Amongst the 6,968 newly admitted children the following defects were found:—

	per cent.
Slightly Enlarged Neck Glands, both sides.	25.1
Slightly Enlarged Neck Glands, one side...	17.7
Dirty and Sore Heads .....	8.0
Enlarged Tonsils .....	6.5
All Eye Defects .....	5.7
Tonsils and Adenoids .....	3.9
Adenoids .....	2.4
Speech Defects .....	2.2
Skin .....	2.1
Anæmia .....	1.9
All Ear Defects .....	1.8
Greatly Enlarged Neck Glands, both sides..	1.8
Greatly Enlarged Neck Glands, one side ...	1.6
Rickets .....	1.2
Circulatory Diseases .....	0.9
Backward Children .....	0.7
Respiratory Diseases .....	0.5
Nervous Diseases .....	0.5
Ringworm .....	0.5
Developmental Defects .....	0.2
Other Conditions of Nose and Throat .....	0.2
Tubercular Diseases .....	0.08
Infectious Diseases .....	0.01
Other Diseases .....	0.6



TABLE XVI.—Males (Entrants).

AGES.	No. Examined.	AVERAGE HEIGHT.				AVERAGE WEIGHT.			
		Inches.		Centimetres.		Pounds.		Kilogrammes.	
		Blackburn.	Standard.	Blackburn.	Standard.	Blackburn.	Standard.	Blackburn.	Standard.
3- 4	260	36·8	36·2	93·4	92·0	33·6	35·0	15·2	15·9
4- 5	539	38·7	37·6	98·3	95·5	36·4	38·6	16·5	17·5
5- 6	635	40·5	39·7	102·8	100·8	38·7	40·9	17·5	18·5
6- 7	192	42·3	41·9	107·4	106·4	41·8	44·6	18·9	20·2
7- 8	115	45·1	44·6	114·5	113·3	47·5	50·7	21·5	23·0
8- 9	102	47·0	46·4	119·4	117·9	52·0	54·3	23·6	24·6
9-10	465	49·1	48·8	124·7	123·9	56·9	58·3	25·8	26·4
10-11	773	50·5	50·7	128·2	128·8	60·1	64·0	27·3	29·0
11-12	384	52·1	52·6	132·3	133·6	64·7	69·0	29·3	31·3

*Therefore*

Males at 3— 4 were 0.6 inches above the standard in height.

„	„	1.4 pounds below	„	„	weight.
„	4— 5	were 1.1 inches above	„	„	height.
„	„	2.2 pounds below	„	„	weight.
„	5— 6	were 0.8 inches above	„	„	height.
„	„	2.2 pounds below	„	„	weight.
„	6— 7	were 0.4 inches above	„	„	height.
„	„	2.8 pounds below	„	„	weight.
„	7— 8	were 0.5 inches above	„	„	height.
„	„	3.2 pounds below	„	„	weight.
„	8— 9	were 0.6 inches above	„	„	height.
„	„	2.3 pounds below	„	„	weight.
„	9—10	were 0.3 inches above	„	„	height.
„	„	1.4 pounds below	„	„	weight.
„	10—11	were 0.2 inches below	„	„	height.
„	„	3.9 pounds below	„	„	weight.
„	11—12	were 0.5 inches below	„	„	height.
„	„	4.3 pounds below	„	„	weight.

TABLE XVII.—Females (Entrants).

AGES.	No. Examined.	AVERAGE HEIGHT.				AVERAGE WEIGHT.			
		Inches.		Centimetres.		Pounds.		Kilogrammes.	
		Blackburn.	Standard	Blackburn	Standard	Blackburn.	Standard.	Blackburn.	Standard.
3- 4	244	36·4	35·3	92·4	89·7	33·0	30·8	15·0	13·9
4- 5	452	38·3	37·3	97·3	94·8	35·4	35·8	16·0	16·2
5- 6	600	40·1	39·7	101·8	100·8	37·1	40·3	16·8	18·3
6- 7	196	42·0	41·8	106·6	106·2	40·4	43·1	18·3	19·5
7- 8	115	44·8	43·5	113·8	110·5	45·7	46·2	20·7	20·9
8- 9	113	46·9	45·5	119·1	113·0	49·0	51·8	22·2	23·5
9-10	467	48·6	47·3	123·4	120·2	53·9	55·2	24·4	25·0
10-11	878	50·1	48·9	127·2	124·2	58·4	60·5	26·5	27·4
11-12	438	51·7	51·5	131·3	130·8	62·8	66·8	28·5	30·3

*Therefore*

Females at 3— 4 were 1.1 inches above the standard in height.

„ „ 2.2 pounds above „ „ weight.

„ 4— 5 were 1.0 inches above „ „ height.

„ „ 0.4 pounds below „ „ weight.

„ 5— 6 were 0.4 inches above „ „ height.

„ „ 3.2 pounds below „ „ weight.

„ 6— 7 were 0.2 inches above „ „ height.

„ „ 2.7 pounds below „ „ weight.

„ 7— 8 were 1.3 inches above „ „ height.

„ „ 0.5 pounds below „ „ weight.

„ 8— 9 were 1.4 inches above „ „ height.

„ „ 2.8 pounds below „ „ weight.

„ 9—10 were 1.3 inches above „ „ height.

„ „ 1.3 pounds below „ „ weight.

„ 10—11 were 1.2 inches above „ „ height.

„ „ 2.1 pounds below „ „ weight.

„ 11—12 were 0.2 inches above „ „ height.

„ „ 4.0 pounds below „ „ weight.





#### B. CHILDREN EXAMINED FOR THE SECOND TIME.

This Group includes those children who had been examined medically for the first time in 1908 and 1909.

1,584 of these children were examined during 1911, and they consisted of 792 boys and 792 girls.

Table XVIII. shows these 1,584 children arranged according to age, sex, and the numbers examined at the various schools.

Tables XIX. and XX. contain particulars of average heights and weights in various age-periods for males and females respectively.

The defects found at these 1,584 second examinations appear in Table XXI.

**TABLE XVIII.**  
**Number and Age Periods of Children examined for the Second time.**

SCHOOL.	7-8		8-9		9-10		10-11		11-12		12-13		Total		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Accrington Road .....	12	12	1	3	...	1	3	2	...	...	3	1	19	19	38
Audley Range .....	16	14	...	2	...	...	...	2	...	2	2	...	18	20	38
All Saints' .....	4	12	...	...	...	...	...	...	...	...	...	...	9	12	21
Bank Top .....	7	12	1	...	1	...	1	...	1	...	...	1	11	15	26
Blakey Moor C. ....	1	6	3	2	...	5	15	10	...	4	5	...	24	27	51
Cedar Street .....	16	15	...	5	...	...	2	...	...	...	3	2	21	22	43
Christ Church .....	16	30	3	3	...	...	5	3	...	...	2	1	26	37	63
Emmanuel .....	16	18	2	...	...	...	...	4	...	...	...	1	18	23	41
Furthegate .....	20	17	1	1	...	...	...	3	...	...	4	1	25	22	47
Four Lanes End .....	8	4	...	...	...	1	2	1	...	...	...	...	10	6	16
Griffin .....	9	6	...	4	...	...	10	2	...	...	2	...	21	15	36
Holy Trinity .....	22	11	1	1	...	...	1	1	...	...	2	3	26	16	42
Lower Darwen C. ....	3	3	...	...	...	...	1	...	...	...	1	...	5	3	8
Maudsley Street .....	14	7	...	1	...	1	4	...	...	...	2	1	20	10	30
Moss Street .....	19	19	...	3	...	1	3	...	1	...	...	2	27	24	51
Mill Hill C. ....	13	13	...	1	1	1	...	3	...	1	1	2	15	18	33
Norfolk Street .....	6	9	...	...	...	...	...	1	...	...	...	1	8	11	19
Park Road .....	26	14	4	3	...	...	5	5	...	...	1	1	36	23	59
Sacred Heart .....	5	8	3	2	...	...	...	1	...	...	1	...	9	11	20
St. Alban's .....	29	31	11	8	...	...	2	1	...	1	5	3	49	44	93
St. Anne's .....	12	15	3	3	...	...	4	1	...	...	2	...	21	19	40
St. Andrew's .....	9	7	3	...	...	...	...	2	...	...	...	...	12	9	21
St. Barnabas's .....	9	15	1	...	...	...	3	3	...	...	2	...	15	20	35

TABLE XVIII.—Continued.  
Numbers and Age Periods of Children examined for the Second time.

SCHOOL.	7-8		8-9		9-10		10-11		11-12		12-13		Total		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
St. Bartholomew's	6	13	...	2	...	...	4	1	...	...	1	4	11	20	31
St. Gabriel's	4	13	1	...	...	...	2	...	...	...	1	...	8	13	21
St. James's, Shear Brow	9	4	1	...	...	1	...	1	...	...	1	2	11	7	18
St. James's, Black-a-Moor	2	5	...	...	...	1	...	...	...	...	...	1	2	7	9
" " Guide	5	2	...	...	...	1	1	...	...	...	2	...	8	3	11
St. John's	20	21	...	...	1	3	4	10	...	...	2	9	24	44	68
St. Joseph's	15	16	1	1	1	2	4	1	...	...	2	1	22	21	43
St. Luke's	10	11	2	3	...	...	3	2	...	...	2	1	17	17	34
St. Mary's	15	26	1	2	1	2	...	1	...	...	1	2	18	33	51
St. Matthew's	11	14	1	...	...	2	1	2	...	...	4	...	17	19	36
St. Michael's	13	14	1	6	2	...	1	2	...	...	1	1	18	24	42
St. Paul's	13	12	8	2	3	...	3	4	3	2	3	1	33	21	54
St. Peter's C.E.	11	10	1	...	...	...	1	3	...	...	2	...	15	13	28
St. Peter's R.C.	18	14	...	2	...	...	...	1	...	...	...	2	18	19	37
" " Silas's	19	14	3	1	2	...	4	1	1	2	6	...	35	18	53
St. Stephen's	15	16	2	4	2	1	1	6	...	1	3	...	23	29	52
St. Thomas's	15	13	2	4	...	...	1	4	2	...	6	1	25	22	47
St. Thomas's	9	11	...	...	...	...	1	...	...	...	...	...	11	11	22
Wensley Fold	17	19	1	1	2	...	...	1	2	...	1	1	23	22	45
Whalley Range	8	3	...	...	...	...	...	...	...	...	...	...	8	3	11
Witton Infants	8	3	...	...	...	...	...	...	...	...	...	...	8	3	11
Total	527	549	69	72	18	21	90	85	12	14	76	51	792	792	1584

**TABLE XIX.**  
**MALES.—Average Heights and Weights.—Second Examination.**

SCHOOL	7 TO 8 YEARS.				8 TO 9 YEARS.				9 TO 10 YEARS.			
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilogrammes	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilogrammes	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilogrammes
Accrington Road .....	43·3	110·0	44·6	20·2	50·5	128·2	57·0	25·8	...	...	...	...
Audley Range .....	44·2	112·2	43·3	19·6	...	...	...	...	...	...	...	...
All Saints' .....	44·6	113·2	43·2	21·8	47·0	119·4	54·7	24·8	...	...	...	...
Bank Top .....	43·7	111·0	43·8	19·8	44·2	112·2	44·2	20·0	48·7	123·7	52·2	23·7
Blakey Moor C. ....	46·0	116·8	51·5	23·3	49·0	124·4	55·0	24·9	...	...	...	...
Cedar Street .....	45·2	114·8	46·9	21·3	...	...	...	...	...	...	...	...
Christ Church .....	45·3	115·0	45·9	20·8	46·4	117·9	51·3	23·2	...	...	...	...
Emmanuel .....	45·0	114·3	45·7	20·7	47·1	119·6	48·7	22·1	...	...	...	...
Four Lanes End .....	44·1	112·0	45·8	20·8	46·0	116·8	47·2	21·4	...	...	...	...
Furthegate .....	45·4	115·3	47·4	21·5	...	...	...	...	...	...	...	...
Griffin .....	46·7	118·6	48·6	22·0	...	...	...	...	...	...	...	...
Holy Trinity .....	44·5	113·0	46·9	21·3	48·2	122·4	59·0	26·7	...	...	...	...
Lower Darwen C. ....	46·4	117·9	49·7	22·6	...	...	...	...	...	...	...	...
Maudsley Street .....	44·6	113·2	44·6	20·2	...	...	...	...	...	...	...	...
Moss Street .....	43·5	110·5	45·1	20·4	45·0	114·3	47·5	21·5	...	...	...	...
Mill Hill C. ....	44·3	112·5	46·8	21·2	...	...	...	...	48·5	123·2	54·0	24·5
Norfolk Street .....	44·1	112·0	43·8	19·8	46·6	118·4	48·1	21·8	...	...	...	...
Park Road .....	44·0	111·7	44·3	20·1	46·4	117·9	52·7	23·9	...	...	...	...
Sacred Heart .....	43·2	109·7	42·9	19·4	47·2	119·9	50·8	22·0	...	...	...	...
St. Alban's .....	44·2	112·2	46·6	21·4	45·5	115·6	50·6	22·9	49·8	125·5	62·3	28·2
St. Anne's .....	43·8	111·2	45·5	20·6	43·7	111·0	47·9	21·7	...	...	...	...
St. Andrew's .....	44·7	113·5	46·3	21·0	46·0	116·8	49·8	22·6	...	...	...	...
St. Barnabas' .....	43·7	111·0	44·3	20·1	45·0	114·3	49·2	22·3	...	...	...	...

**TABLE XIX.—Continued**  
**MALES.—Average Heights and Weights.—Second Examination.**

SCHOOL	7 TO 8 YEARS.				8 TO 9 YEARS.				9 TO 10 YEARS.			
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms
St. Bartholomew's ..	45.2	114.8	47.2	21.4	...	...	...	...	...	...	...	...
St. Gabriel's .....	44.5	113.0	43.8	19.8	42.5	107.9	...	22.7	...	...	...	...
St. James', Shear Br'w	44.4	112.8	43.9	19.9	45.7	116.0	51.0	23.1	...	...	...	...
" Black-a-M'r	45.4	115.3	48.6	22.0	...	...	...	...	...	...	...	...
" Guide .....	45.3	115.0	47.1	21.3	...	...	...	...	...	...	...	...
St. John's .....	44.8	113.8	45.9	20.8	...	...	...	...	50.0	127.0	55.7	25.3
St. Joseph's .....	42.9	109.0	44.2	20.0	45.5	115.6	44.7	20.3	...	...	...	...
St. Luke's .....	44.5	113.0	46.5	21.1	46.5	118.1	57.3	26.0	...	...	...	...
St. Mary's .....	43.6	110.7	44.6	20.2	46.0	116.8	47.2	21.4	47.2	119.9	53.5	24.3
St. Matthew's .....	43.7	111.0	44.1	20.0	48.2	122.4	50.0	22.7	...	...	...	...
St. Michael's .....	44.4	112.8	45.7	20.7	43.0	109.2	40.2	18.2	...	...	56.2	25.5
St. Paul's .....	43.8	111.2	43.6	19.7	46.0	116.8	46.9	21.3	47.4	120.4	51.2	23.2
St. Peter's C.E. ....	44.4	112.8	46.6	21.4	48.0	121.9	52.7	23.9	...	...	...	...
" R.C. ....	44.6	113.2	47.3	21.4	...	...	...	...	...	...	...	...
St. Silas' .....	43.9	111.5	43.0	19.5	48.8	123.9	52.7	23.9	50.5	128.2	57.9	26.2
St. Stephen's .....	44.9	114.0	47.8	21.7	47.2	119.9	54.7	24.8	47.3	120.1	54.1	24.5
St. Thomas' .....	43.7	111.0	44.1	20.0	48.3	122.7	53.2	24.1	...	...	...	...
Wensley Fold .....	42.9	109.0	42.1	19.1	...	...	...	...	48.5	123.2	54.0	24.5
Whalley Range .....	43.8	111.2	45.1	20.4	45.2	114.8	52.0	23.6	44.9	114.0	49.6	22.5
Witton Infants .....	46.2	117.4	47.4	21.5	..	...	..	...	...	...	...	...
Averages .....	44.4	112.8	45.7	20.7	46.3	117.6	50.6	22.9	48.4	122.9	54.6	24.7

**TABLE XIX.—Continued.**  
**MALES—Average Heights and Weights.—Second Examination.**

SCHOOL.	10 TO 11 YEARS.				11 TO 12 YEARS.				12 TO 13 YEARS.			
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms
Accrington Road .....	50.1	127.2	61.7	28.0	...	...	...	...	55.0	139.7	70.5	32.0
Audley Range .....	...	...	...	31.7	53.5	135.9	63.2	28.6	58.3	148.1	83.3	37.8
All Saints' .....	50.7	128.8	70.0	...	49.2	125.0	56.2	25.5	...	...	...	...
Bank Top .....	45.7	116.0	43.7	19.8	...	...	...	...	...	...	...	...
Blakey Moor C. ....	51.8	131.6	64.3	29.1	...	...	...	...	52.5	133.3	66.5	30.2
Cedar Street .....	51.2	130.0	65.2	29.5	...	...	...	...	53.0	134.6	65.3	29.6
Christ Church .....	49.5	125.7	59.4	26.9	...	...	...	...	54.5	138.4	79.5	36.0
Emmanuel .....	...	...	...	...	...	...	...	...	...	...	...	...
Furthergate .....	...	...	...	...	...	...	...	...	50.6	128.5	65.8	29.8
Four Lanes End .....	50.6	128.5	61.3	27.8	...	...	...	...	...	...	...	...
Griffin .....	50.8	129.0	65.0	29.5	...	...	...	...	56.0	142.2	78.5	35.6
Holy Trinity .....	51.0	129.5	60.7	27.5	...	...	...	...	53.6	136.2	67.0	30.4
Lower Darwen C. ....	50.0	127.0	56.7	25.7	...	...	...	...	53.0	134.6	70.2	31.8
Maudsley Street .....	50.1	127.2	61.6	27.9	...	132.6	63.5	28.8	49.8	126.5	59.9	27.2
Moss Street .....	50.9	129.3	58.5	26.5	52.2	...	...	...	...	...	...	...
Mill Hill C. ....	...	...	...	...	...	...	...	...	54.5	138.4	73.7	33.4
Norfolk Street .....	...	...	...	...	...	...	...	...	...	...	...	...
Park Road .....	48.2	122.4	55.2	25.0	...	...	...	...	48.2	122.4	50.2	22.7
Sacred Heart .....	...	...	...	...	...	...	...	...	54.4	137.1	69.7	31.6
St. Alban's .....	49.2	125.0	65.1	29.5	...	...	...	...	52.4	133.1	67.8	30.7
St. Anne's .....	48.3	122.7	58.1	26.3	...	...	...	...	50.5	128.2	68.1	30.9
St. Andrew's .....	...	...	...	...	...	...	...	...	...	...	...	...
St. Barnabas' .....	48.9	124.2	57.5	26.1	...	...	...	...	56.6	143.7	86.3	39.1



TABLE XIX.—Continued.  
MALES.—Average Heights and Weights.—Second Examination.

SCHOOL.	10 TO 11 YEARS.				11 TO 12 YEARS.				12 TO 13 YEARS.			
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in grammes	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in grammes	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in grammes
St. Bartholomew's ..	51.4	130.6	61.9	28.1	...	...	...	...	51.0	129.5	59.7	27.1
St. Gabriel's .....	52.1	132.3	68.3	31.0	...	...	...	...	55.5	141.0	77.2	35.0
St. James' Shear Br'w ..	...	...	...	...	...	...	...	...	55.0	139.7	72.5	32.9
" Black-a-M'r ..	...	...	...	...	...	...	...	...	...	...	...	...
" Guide .....	48.0	121.9	57.0	25.8	...	...	...	...	54.9	139.4	69.5	31.5
St. John's .....	50.5	128.2	60.5	27.4	...	...	...	...	53.3	135.4	68.6	31.1
St. Joseph's .....	48.9	124.2	55.1	25.0	...	...	...	...	53.6	136.2	70.0	31.7
St. Luke's .....	49.6	126.0	55.2	25.0	...	...	...	...	48.8	123.9	55.1	25.0
St. Mary's .....	...	...	...	...	...	...	...	...	54.5	138.4	76.5	34.7
St. Matthew's .....	50.0	127.0	53.7	24.3	...	...	...	...	53.9	136.9	74.8	33.9
St. Michael's .....	51.7	131.3	71.7	32.5	...	...	...	...	56.5	143.5	80.5	36.5
St. Paul's .....	50.7	128.8	66.0	29.9	52.8	134.1	70.0	31.7	54.9	139.4	74.4	33.7
St. Peter's C.E. ....	45.5	115.6	46.5	21.1	...	...	...	...	54.2	137.7	73.1	33.1
" R.C. ....	...	...	...	...	...	...	...	...	...	...	...	...
St. Silas' .....	50.7	128.8	56.7	25.7	50.5	128.2	57.7	26.1	55.5	141.0	74.7	33.9
St. Stephen's .....	54.0	137.1	63.0	28.6	...	...	...	...	57.1	145.1	80.2	36.4
St. Thomas' .....	...	...	...	...	50.8	129.0	61.3	27.8	52.8	134.1	71.6	32.5
Wensley Fold .....	51.5	130.8	61.5	27.9	53.6	136.2	69.5	31.5	54.2	137.6	79.7	36.1
Whalley Range .....	...	...	...	...	...	...	...	...	...	...	...	...
Witton Infants .....	...	...	...	...	...	...	...	...	...	...	...	...
Averages .....	50.0	127.0	60.0	27.2	51.8	131.6	63.1	28.6	53.7	136.4	71.3	32.3



**TABLE XX.**  
**FEMALES.—Average Heights and Weights. — Second Examination.**

SCHOOL.	7 TO 8 YEARS.				8 TO 9 YEARS.				9 TO 10 YEARS.			
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms
Acreington Road .....	44.5	113.0	44.2	20.0	48.4	123.0	51.9	23.5	47.0	119.4	47.0	21.3
Andley Range .....	44.2	112.2	43.3	19.6	46.6	118.4	48.2	21.8	..	..	..	..
All Saints' .....	44.1	112.0	45.2	20.5	..	..	..	..	..	..	..	..
Bank Top .....	43.7	111.0	42.9	19.4	..	..	..	..	..	..	..	..
Blakey Moor C. ....	46.3	117.6	44.8	20.3	42.5	107.9	53.6	24.3	49.2	125.0	52.4	23.8
Cedar Street .....	44.2	112.2	44.7	20.3	46.8	118.9	50.6	22.9	..	..	..	..
Christ Church .....	43.1	109.4	41.9	19.0	44.7	113.5	44.6	20.2	..	..	..	..
Emmanuel .....	43.3	110.0	42.7	19.3	..	..	..	..	..	..	..	..
Furthergate .....	43.7	111.0	43.4	19.7	47.7	121.1	54.0	24.5	..	..	..	..
Four Lanes End .....	45.1	114.5	42.9	19.4	..	..	..	..	47.7	121.1	47.2	21.4
Griffin .....	45.2	114.8	45.8	20.8	44.9	114.0	45.5	20.6	..	..	..	..
Holy Trinity .....	43.4	110.2	43.5	19.7	46.7	118.6	50.0	22.7	..	..	..	..
Lower Darwen C. ....	45.9	116.6	48.8	22.1	..	..	..	..	..	..	..	..
Maudsley Street .....	44.6	113.2	45.6	20.7	47.0	119.4	51.2	23.2	..	..	..	..
Moss Street .....	42.8	108.7	44.4	19.2	46.4	117.9	50.5	22.9	..	..	..	..
Mill Hill C. ....	44.9	114.0	44.4	20.1	50.0	127.0	56.0	25.4	51.2	130.0	63.7	28.9
Norfolk Street .....	43.9	111.5	44.2	20.0	..	..	..	..	..	..	..	..
Park Road .....	43.9	111.5	44.0	19.9	46.0	116.8	52.0	23.6	..	..	..	..
Sacred Heart .....	44.8	113.8	43.1	19.5	42.3	107.4	39.3	17.8	..	..	..	..
St. Alban's .....	43.2	109.7	42.7	19.3	45.9	116.6	49.3	22.3	..	..	..	..
St. Anne's .....	42.6	108.2	40.4	18.3	45.7	116.0	50.7	23.0	..	..	..	..
St. Andrew's .....	42.9	109.0	42.1	19.1	..	..	..	..	..	..	..	..
St. Barnabas' .....	42.7	108.4	41.8	18.9	47.2	119.9	46.7	21.2	..	..	..	..

TABLE XX.—Continued.  
FEMALES.—Average Heights and Weights.—Second Examination.

SCHOOL	7 TO 8 YEARS.				8 TO 9 YEARS.				9 TO 10 YEARS.			
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms
St. Bartholomew's ..	45.6	115.8	47.6	21.6	51.0	129.5	48.0	21.7	...	...	...	...
St. Gabriel's .....	43.6	110.7	42.9	19.4	...	...	...	...	...	...	...	...
St. James' Shear Br'w ..	44.9	114.0	45.4	20.6	...	...	...	...	...	...	...	...
Black-a-M'r .....	44.7	113.5	44.7	20.3	...	...	...	...	47.5	120.6	55.2	25.0
" Guide .....	42.6	108.2	39.2	17.8	...	...	...	...	44.2	112.2	46.0	20.9
St. John's .....	44.2	112.2	43.6	19.8	45.2	114.8	47.7	21.6	47.5	120.6	47.7	21.6
St. Joseph's .....	43.5	110.5	43.2	19.6	44.2	112.2	45.5	20.6	43.6	110.7	46.8	21.2
St. Luke's .....	44.6	113.2	45.7	20.7	46.6	118.4	49.2	22.3	...	...	...	...
St. Mary's .....	43.6	110.7	43.3	19.6	45.2	114.8	47.3	21.5	49.6	126.0	56.3	25.5
St. Matthew's .....	44.9	114.0	44.5	20.2	...	...	...	22.6	49.1	124.7	55.6	25.2
St. Michael's .....	42.2	107.2	40.5	18.3	46.1	117.1	49.7	21.0	...	...	...	...
St. Paul's .....	43.3	110.0	43.5	19.3	47.6	120.9	46.2	21.0	...	...	...	...
St. Peter's C.E. ....	44.4	112.8	43.5	19.7	...	...	...	...	...	...	...	...
" R.C. ....	43.6	110.7	43.6	19.8	45.6	115.8	46.1	20.9	...	...	...	...
St. Silas' .....	44.3	112.5	44.1	20.0	49.0	124.4	63.0	27.2	...	...	...	...
St. Stephen's .....	43.6	110.7	43.8	19.9	44.3	112.5	46.1	20.9	49.7	126.2	59.0	26.8
St. Thomas' .....	44.0	111.7	42.4	19.2	47.5	120.6	50.2	22.8	...	...	...	...
Wensley Fold .....	42.5	107.9	42.6	19.3	...	...	...	...	...	...	...	...
Whalley Range .....	44.7	113.5	44.8	20.3	43.7	111.0	45.7	20.7	...	...	...	...
Witton Infants .....	42.7	108.4	41.7	18.9	...	...	...	...	...	...	...	...
Averages .....	44.0	111.7	43.6	19.8	46.3	117.6	49.1	22.3	48.1	122.2	53.1	24.1

TABLE XX.—Continued.  
FEMALES—Average Heights and Weights.—Second Examination.

SCHOOL.	10 TO 11 YEARS.				11 TO 12 YEARS.				12 TO 13 YEARS.			
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms
Accrington Road .....	53·5	135·9	70·2	31·8	50·8	129·0	57·5	26·1	53·5	135·9	60·2	27·3
Andley Range .....	49·0	124·4	56·5	25·6	...	...	...	...	...	...	...	...
Ali Saints' .....	...	...	...	...	...	...	...	...	...	...	...	...
Bank Top .....	47·2	119·9	50·0	22·7	...	...	...	...	52·0	132·1	75·0	34·0
Blakey Moor C. ....	51·5	130·8	64·0	29·0	52·7	133·8	67·2	30·5	...	...	...	...
Cedar Street .....	...	...	...	...	...	...	...	...	54·2	137·6	66·2	30·0
Christ Church .....	49·5	125·7	58·2	26·4	...	...	...	...	54·5	138·4	72·0	32·7
Emmanuel .....	49·1	124·7	58·5	26·5	...	...	...	...	52·5	133·3	78·0	35·4
Furthergate .....	48·4	123·0	54·5	24·7	...	...	...	...	59·2	150·4	90·0	40·8
Four Lanes End .....	50·0	127·0	59·0	26·8	...	...	...	...	...	...	...	...
Griffin .....	50·8	129·0	59·3	26·9	...	...	...	...	56·5	143·5	72·9	33·1
Holy Trinity .....	47·0	119·4	46·0	20·9	...	...	...	...	50·9	129·3	65·5	29·7
Lower Darwen C. ....	...	...	...	...	...	...	...	...	...	...	...	...
Maudsley Street .....	...	...	...	...	...	...	...	...	57·0	144·8	79·5	36·0
Moss Street .....	...	...	...	...	...	...	...	...	55·1	139·9	73·8	33·5
Mill Hill C. ....	49·0	124·4	52·7	23·9	...	...	...	...	56·2	142·8	75·9	34·4
Norfolk Street .....	52·7	133·8	62·7	28·4	...	...	...	...	56·2	142·8	75·2	34·1
Park Road .....	47·8	121·4	53·2	24·1	...	...	...	...	49·2	125·0	70·0	31·7
Sacred Heart .....	51·0	129·5	62·5	28·3	...	...	...	...	...	...	...	...
St. Alban's .....	45·0	114·3	48·0	21·8	49·5	125·7	60·5	27·4	50·7	128·8	62·0	28·1
St. Anne's .....	49·7	126·2	62·5	28·3	...	...	...	...	...	...	...	...
St. Andrew's .....	52·3	132·8	63·2	28·7	...	...	...	...	...	...	...	...
St. Barnabas' .....	50·3	127·7	62·9	28·5	...	...	...	...	56·2	142·8	90·0	40·8

TABLE XX.—Continued.

## FEMALES—Average Heights and Weights.—Second Examination.

	10 TO 11 YEARS.				11 TO 12 YEARS.				12 TO 13 YEARS.			
	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms
SCHOOL.												
St. Bartholomew's ..	51.0	129.5	60.7	27.5	...	...	...	...	55.5	141.0	78.0	35.4
St. Gabriel's .....	...	...	...	...	...	...	...	...	...	...	...	...
St. James, Shear Br'w	44.7	113.5	45.2	20.5	...	...	...	...	49.8	126.5	56.3	25.5
Black-a-M'r ..	...	...	...	...	...	...	...	...	53.2	135.2	69.0	31.3
Guide .....	...	...	...	...	...	...	...	...	...	...	...	...
St. John's .....	50.2	127.5	58.1	26.3	...	...	...	...	56.1	142.5	76.4	34.7
St. Joseph's .....	53.0	134.6	72.7	33.0	...	...	...	...	58.0	147.3	85.7	38.8
St. Luke's .....	49.8	126.5	58.0	26.3	...	...	...	...	56.2	142.8	75.2	34.1
St. Mary's .....	48.2	122.4	60.2	27.3	...	...	...	...	55.6	141.2	78.5	35.6
St. Matthew's .....	48.1	122.2	54.5	24.7	50.7	128.8	55.0	24.9	...	...	...	...
St. Michael's .....	51.3	130.3	60.0	27.2	51.0	129.5	59.0	26.8	53.5	135.9	75.0	34.0
St. Paul's .....	49.9	126.7	59.4	26.9	50.0	127.0	52.5	23.8	51.2	130.0	61.0	27.7
St. Peter's C.E. ....	49.7	126.2	60.4	27.4	...	...	...	...	...	...	...	...
R.C. ....	52.7	133.8	64.5	29.3	...	...	...	...	56.1	142.5	77.9	35.3
St. Silas' .....	48.5	123.2	54.0	24.5	55.9	142.0	73.3	33.2	...	...	...	...
St. Stephen's .....	50.1	127.2	55.3	25.1	49.7	126.2	54.0	24.5	53.7	136.4	69.0	31.3
St. Thomas' .....	48.9	124.2	53.7	24.4	...	...	...	...	56.5	143.5	76.2	34.6
Wensley Fold .....	...	...	...	...	...	...	...	...	...	...	...	...
Whalley Range .....	51.0	129.5	56.0	25.4	...	...	...	...	50.2	127.5	62.2	28.2
Witton Infants .....	...	...	...	...	...	...	...	...	...	...	...	...
Averages .....	49.7	126.2	58.1	26.3	51.3	130.3	59.9	27.2	54.3	137.9	73.1	33.1

**TABLE XXI.**  
**Conditions, Defects, etc. found in the 1584 Children examined for the Second time.**

SCHOOL	Nutrition			Clothing			Footgear			Cleanliness			Teeth			Nose and Throat		Ext. Eye Disease		Ext. Ear Disease	
	Excellent	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Bad	Good	Defective	Good	Defective	Good
Accrington Road .....	4	27	7	..	15	23	..	37	1	..	21	14	3	2	13	23	35	3	37	1	38
Andley Range .....	1	30	7	..	5	32	1	31	6	1	16	19	3	3	12	23	33	5	38	..	38
All Saints' .....	2	17	2	..	6	12	..	16	5	..	8	10	3	3	3	15	19	2	20	1	20
Bank Top .....	..	20	6	..	4	19	..	20	4	2	10	9	7	1	5	20	23	4	26	..	25
Blokey Moor C. ....	..	39	12	..	36	15	..	50	1	..	40	11	..	3	33	15	47	4	51	..	51
Cedar Street .....	4	32	7	..	19	22	..	43	..	..	25	15	..	3	4	14	38	5	43	..	43
Christ Church .....	..	40	22	1	20	37	6	56	7	..	25	32	6	9	36	18	42	21	58	5	62
Emmanuel .....	..	28	13	..	7	31	3	24	17	..	16	22	3	1	26	14	21	20	37	4	41
Furthergate .....	2	39	5	1	8	32	7	27	16	4	20	22	5	8	19	23	35	12	44	3	46
Four Lanes End .....	..	14	2	..	5	10	1	14	2	..	11	4	1	..	7	9	16	..	16	..	16
Griffin .....	4	26	6	..	11	24	1	34	2	..	25	10	3	2	12	22	34	2	34	2	36
Holy Trinity .....	3	37	2	..	8	28	6	34	5	3	20	20	1	1	12	29	37	5	42	..	42
Lower Darwen C. ....	1	6	1	..	5	3	..	7	1	..	6	2	..	3	3	2	7	1	8	..	8
Maudsley Street .....	1	22	7	..	4	25	1	25	3	1	9	21	..	1	5	24	29	1	29	1	29
Moss Street .....	5	38	8	..	9	40	2	49	2	..	20	29	2	6	15	30	50	1	48	3	50
Mill Hill C. ....	5	26	2	..	13	19	1	31	2	..	17	13	3	2	8	22	28	5	31	2	33
Norfolk Street .....	1	13	4	..	6	13	..	13	6	..	9	6	4	..	8	11	16	3	16	3	18
Park Road .....	1	42	15	1	8	46	5	52	6	..	18	33	8	5	14	40	51	8	57	2	59
Sacred Heart .....	1	19	1	..	1	10	..	17	2	1	15	2	3	1	1	18	19	1	19	1	20
St. Alban's .....	3	69	20	1	10	75	..	84	8	1	36	48	9	5	27	61	81	12	89	4	90
St. Anne's .....	1	36	3	..	3	32	5	31	8	1	13	19	8	6	14	20	33	7	35	5	37
St. Andrew's .....	1	15	5	..	6	14	1	16	4	1	10	8	3	..	9	12	38	3	21	..	20
St. Barnabas' .....	5	29	1	..	8	23	4	32	1	2	17	11	7	3	10	22	31	4	34	1	35



TABLE XXI.—Continued.

Conditions, Defects, etc., found in the 1584 Children examined for the Second time.

SCHOOL.	Nutrition			Clothing			Footgear			Cleanliness			Teeth			Nose and Throat		Ext. Eye Disease		Ext. Ear Disease	
	Excellent	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Bad	Good	Good	Defective	Good	Defective
St. Bartholomew's ...	4	23	4	...	17	14	...	26	5	...	17	14	...	1	7	23	23	30	1	31	...
St. Gabriel's .....	2	17	2	...	9	12	...	20	1	...	13	8	...	11	11	9	9	21	...	21	...
St. James', Shear Br'w	1	14	3	...	3	14	...	15	3	...	11	4	...	1	3	14	15	18	...	18	...
"    Black-a-M'r	...	8	1	...	3	6	...	7	2	...	7	2	...	...	6	7	6	8	...	9	...
"    Guide .....	...	9	2	...	2	9	...	9	2	...	6	4	...	...	4	2	8	10	...	11	...
St. John's .....	5	50	13	...	27	41	...	66	2	...	36	24	...	3	6	47	62	66	...	66	...
St. Joseph's .....	1	30	12	...	13	24	...	24	18	...	14	22	...	6	18	18	28	41	...	42	...
St. Luke's .....	2	25	7	...	7	22	...	31	3	...	14	13	...	1	11	22	27	32	...	33	...
St. Mary's .....	3	35	13	...	6	38	...	41	3	...	15	23	...	6	23	22	45	44	...	50	...
St. Matthew's .....	2	30	4	...	7	29	...	35	1	...	18	15	...	3	8	26	34	36	...	36	...
St. Michael's .....	2	27	12	...	6	30	...	37	4	...	10	28	...	4	16	22	40	40	...	41	...
St. Paul's .....	1	46	6	...	1	6	...	39	12	...	12	34	...	4	17	33	50	52	...	53	...
St. Peter's C.E. ....	1	23	4	...	5	23	...	24	4	...	10	17	...	1	4	9	25	28	...	27	...
"    R.C. ....	2	33	2	...	5	30	...	30	5	...	12	19	...	2	9	26	35	37	...	35	...
St. Silas' .....	2	46	5	...	29	24	...	49	4	...	42	10	...	1	2	39	50	52	...	53	...
St. Stephen's .....	5	41	6	...	18	33	...	46	5	...	23	15	...	2	16	34	49	50	...	52	...
St. Thomas' .....	2	33	12	...	11	33	...	35	12	...	22	21	...	4	7	19	32	45	...	46	...
Wensley Fold .....	1	17	4	...	2	17	...	19	2	...	3	16	...	3	2	4	21	22	...	21	...
Whalley Range .....	4	38	3	...	9	36	...	41	4	...	26	16	...	4	14	27	38	42	...	45	...
Witton Infants .....	1	8	2	...	4	6	...	9	1	...	10	...	...	...	2	9	11	11	...	11	...
Total .....	85	1217	275	7	415	1067	102	1347	207	30	732	690	163	124	533	927	1362	1518	66	1553	26

**TABLE XXII.**  
**Conditions, etc., found amongst the 1584 Children examined**  
**for the second time.**

	Excellent.	Good	Medium.	Bad.
	Percentage	Percentage	Percentage	Percentage
Nutrition .....	5·4	76·8	17·3	0·4
Clothing .....	...	26·2	67·3	6·4
Footgear .....	...	85·0	13·0	1·9
Cleanliness .....	...	46·2	43·5	10·3
Teeth ..	...	7·8	33·6	58·5

	Good.	Defective.
	Percentage	Percentage
Nose and Throat.....	85·9	14·0
External Eye Defects.....	95·8	4·1
External Ear Defects (Otorrhœa) .....	98·3	1·6



Amongst the 1,584 children examined for the second time, the following defects were found:—

per cent.

Slightly Enlarged Neck Glands, both sides.	26.6
Slightly Enlarged Neck Glands, one side...	21.8
Dirty and Sore Heads .....	9.2
Enlarged Tonsils .....	7.3
All Eye Defects .....	5.5
Tonsils and Adenoids .....	3.9
Anæmia .....	3.0
All Ear Defects .....	2.8
Speech Defects .....	2.8
Greatly Enlarged Glands, one side .....	2.5
Adenoids .....	2.0
Skin .....	2.0
Greatly Enlarged Glands, both sides .....	1.8
Circulatory Diseases .....	1.3
Backward Children .....	1.0
Ringworm .....	0.8
Rickets .....	0.7
Respiratory Diseases .....	0.4
Nervous Diseases .....	0.4
Other Conditions of Nose and Throat .....	0.4
Tubercular Diseases .....	0.2
Developmental Defects .....	0.2
Other Diseases .....	0.4

**TABLE XXIII.**  
**Males (Second Examination).**

AGES.	No. Examined.	AVERAGE HEIGHT.				AVERAGE WEIGHT.			
		Inches.		Centimetres.		Pounds.		Kilogrammes.	
		Blackburn.	Standard	Blackburn	Standard	Blackburn	Standard	Blackburn	Standard
7- 8	527	44.4	44.6	112.8	113.3	45.7	50.7	20.7	23.0
8- 9	69	46.3	46.4	117.6	117.9	50.6	54.3	22.9	24.6
9-10	18	48.4	48.8	122.9	123.9	54.6	58.3	24.7	26.4
10-11	90	50.0	50.7	127.0	128.8	60.0	64.0	27.2	29.0
11-12	12	51.8	52.6	131.6	133.6	63.1	69.0	28.6	31.3
12-13	76	53.7	53.7	136.4	136.4	71.3	73.0	32.3	33.1

*Therefore*

Males at 7— 8 were 0.2 inches below the standard in height.  
 „ „ 5.0 pounds below „ „ weight.  
 „ 8— 9 were 0.1 inches below „ „ height.  
 „ „ 3.7 pounds below „ „ weight.  
 „ 9—10 were 0.4 inches below „ „ height.  
 „ „ 3.7 pounds below „ „ weight.  
 „ 10—11 were 0.7 inches below „ „ height.  
 „ „ 4.0 pounds below „ „ weight.  
 „ 11—12 were 0.8 inches below „ „ height.  
 „ „ 5.9 pounds below „ „ weight.  
 „ 12—13 the same as the standard in height.  
 „ „ 1.7 pounds below the standard in weight.

**TABLE XXIV.**  
**Females (Second Examination).**

AGES.	No. Examined.	AVERAGE HEIGHT.				AVERAGE WEIGHT.			
		Inches.		Centimetres.		Pounds.		Kilogrammes.	
		Blackburn	Standard	Blackburn	Standard	Blackburn	Standard	Blackburn	Standard
7- 8	549	44·0	43·5	111·7	110·5	43·6	46·2	19·8	20·9
8- 9	72	46·3	45·5	117·6	113·0	49·1	51·8	22·3	23·5
9-10	21	48·1	47·3	122·2	120·2	53·1	55·2	24·1	25·0
10-11	85	49·7	48·9	126·2	124·2	58·1	60·5	26·3	27·4
11-12	14	51·3	51·5	130·3	130·8	59·9	66·8	27·2	30·3
12-13	51	54·3	53·9	137·9	136·9	73·1	74·9	33·1	34·0

*Therefore*

Females at 7— 8 were 0.5 inches above the standard in height.

„ „ 2.6 pounds below „ „ weight.

„ 8— 9 were 0.8 inches above „ „ height.

„ „ 2.7 pounds below „ „ weight.

„ 9—10 were 0.8 inches above „ „ height.

„ „ 2.1 pounds below „ „ weight.

„ 10—11 were 0.8 inches above „ „ height.

„ „ 2.4 pounds below „ „ weight.

„ 11—12 were 0.2 inches below „ „ height.

„ „ 6.9 pounds below „ „ weight.

„ 12—13 were 0.4 inches above „ „ height.

„ „ 1.8 pounds below „ „ weight.

### C. LEAVERS, INCLUDING HALF-TIMERS.

In this Group 1,776 children, comprising 872 boys and 904 girls, were examined between the ages of 12 and 14 years.

Of these 1,776 children, 1,043 children, comprising 482 boys and 561 girls, were engaged half the day in the cotton mills.

Of these 1,043 children, 421 boys and 431 girls were between 12 and 13 years of age.

Tables XXV. to XXXV. show particulars regarding the heights and weights of half-timers and non-half-timers, together with comparisons between those and the standard.

Tables XXXVI. and XXXVII. show the defects found amongst these 1,776 leavers, including the half-timers.

The heights and weights of the half-timers examined in Blackburn during 1911, show similar results to those obtained from examinations of leavers, including half-timers, and published in my Annual Education Reports for the years 1908, 1909, and 1910.

I referred last year to the advisability of the need for interest to be taken in the future occupation of this group of children.

The average number of half-timers during the past twelve months was 1,599, an increase of 53 on the previous twelve months.

The following shows the decrease in the number of half-timers in recent years:—

	1890	.....	5,300		1904-5	.....	2,044
(a)	1893	.....	4,065		1905-6	.....	1,957
(b)	1896	.....	3,218		1906-7	.....	1,918
(c)	1899	.....	2,592		1907-8	.....	1,896
	1900	.....	2,300		1908-9	.....	1,748
	1901	.....	2,518	(d)	1909-10	.....	1,687
	1902	.....	2,337		1910-11	.....	1,546
	1903-4	.....	2,110		1911-12	.....	1,599

- (a) In 1893 the age for exemption was raised from 10 to 11 years.
- (b) In 1896 the qualifying Standard was raised from the 3rd to the 4th.
- (c) In 1899 the age for exemption was raised from 11 to 12 years.
- (d) In 1909 the qualifying Standards were raised from Standards IV. to V. for partial exemption, and from Standards V. to VI. for total exemption.

Previous to 1903-4, the figures are based on statements made in the months of March and September each year. From March, 1903, the figures show the average number for twelve months.

From the following Table the variation in the number of children of the stated ages attending the Elementary Schools will be seen :—

AGE.	1909-10.			1910-11.			1911-12.		
	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
3 and under 5	1007	1022	2029	1038	970	2008	1048	983	2031
5 " " 7	2305	2333	4638	2242	2278	4520	2315	2320	4635
7 " " 12	5825	5936	11761	5713	5852	11565	5616	5660	11276
12 " " 15	1545	1480	3025	1484	1484	2968	1311	1430	2741
15 " " 16	11	14	25	19	12	31	6	4	10
16 " " 17	...	3	3	...	3	3	2	2	4
Total ...	10693	10788	21481	10496	10599	21095	10298	10399	20697

### EXEMPTIONS.

The following shows the number of children registered for total and partial exemption during the twelve months :—

#### *Total Exemptions.*

By Attendance		By Proficiency.			
Qualification.	Standard VII.	By			
Age 13.	Ages 12 & 13.	Age.	Total.		
1911-12 .....	1,706 .....	5 .....	164 .....	1875	
1910-11 .....	1,771 .....	6 .....	183 .....	1960	

*Partial Exemption.*

	By Attendance Qualification.	By Proficiency. Standard V.	Total.
1911-12 .....	1,678	3	1,681
1910-11 .....	1,622	3	1,625

The following are the occupations registered of the 1,706 children obtaining Full Time Exemption at 13 years by attendance qualification:—

Mills, Warehouses, etc. ....	1421
Rope Works .....	10
Underclothing Factories .....	9
Machinists, etc. (girls) .....	24
Toffee Works (girls) .....	7
Paper Bag and Paper Works .....	4
Tailors .....	2
Dressmaking, etc. ....	13
Heald and Reed Works .....	14
Retail Shops .....	12
Laundry Works .....	5
Coal Mines .....	3
Printers .....	3
Painters (6), Plumbers (5) .....	11
Joiners and Builders .....	2
Foundries (6), Tinplate Works (2) .....	8
Shuttleworker (1), Wheelwright (1) .....	2
Dyeworks .....	1
Saltworks .....	1
Bookbinding .....	1
Shoemaker .....	1
Gardener .....	1
Card Works .....	5
Office Boys (Commercial) .....	21
Office Boys (Solicitors) .....	4
Corporation Trams and Water Departments	7
On Farms .....	2
Errand Boys .....	87
Domestic (girls) .....	11
Typewriting .....	1
P.O. Messenger .....	1
Other Occupations .....	12

The following are the Occupations of the 1,681 Half-Timers registered:—

Mills .....	1540
Rope Works .....	15
Underclothing Factories .....	16
Paper Bag Works .....	6
Tinners .....	2
Toffee Works .....	13
Dressmakers, etc. ....	6
Bakehouses .....	2
Plumbers (1), Joiners (1) .....	2
Salt Works .....	1
Shoe Factory .....	5
Errand Boys .....	47
Laundry .....	1
Domestic (girls) .....	12
Office Boys .....	2
Heald and Reed Works .....	7
Messengers .....	2
Painter .....	1
Brushmaker .....	1



TABLE XXV.—Number of Leavers Examined.

SCHOOL.	Total Number of Children Examined.	12 TO 13 YEARS.						13 TO 14 YEARS.					
		Number of half- timers engaged in Cotton Industry			Number of half- timers engaged in Industries other than Cotton			Number of half- timers engaged in Cotton Industry			Number of half- timers engaged in Industries other than Cotton		
		M	F	M	F	M	F	M	F	M	F	M	F
Accrington Road .....	36	22	14	13	8	1	1	4	1	1	...	3	1
Andley Range .....	37	17	20	11	10	1	1	4	2	...	...	1	3
All Saints' .....	23	6	17	4	15	...	...	1	...	...	...	...	...
Bank Top .....	36	20	16	13	8	2	...	5	3	...	...	...	1
Cedar Street .....	51	25	26	10	14	...	...	6	2	...	1	5	...
Christ Church .....	73	37	36	25	25	1	...	6	4	...	...	...	3
Emmanuel .....	46	18	28	12	24	...	...	2	2	...	...	...	...
Furthergate .....	56	26	30	16	17	1	1	5	3	2	2	1	4
Four Lanes End .....	13	8	5	1	...	...	...	2	2	...	...	5	1
Griffin .....	43	15	28	6	25	3	...	4	1	...	...	2	...
Holy Trinity .....	64	31	33	12	17	4	...	7	2	...	...	6	3
Lower Darwen C. ....	18	7	11	5	8	...	...	...	...	...	...	2	...
Maudsley Street .....	26	15	11	8	3	2	1	1	4	1	1	2	2
Moss Street .....	83	42	41	23	25	4	2	8	4	3	1	2	4
Mill Hill C. ....	56	32	24	19	12	...	...	10	4	2	...	1	2
Norfolk Street .....	19	12	7	3	3	1	...	1	2	...	...	...	...
Park Road .....	76	41	35	20	18	1	1	11	7	1	...	4	2
Sacred Heart .....	15	5	10	3	2	...	...	...	1	...	...	...	...
St. Alban's .....	92	39	53	17	21	6	4	...	11	...	1	1	2
St. Anne's .....	93	38	55	9	23	9	4	10	4	...	1	7	4
St. Andrew's .....	32	18	14	9	6	...	...	5	6	...	...	2	4
St. Barnabas's .....	43	23	20	8	5	4	1	6	5	2	...	1	2

TABLE XXV.—continued.—Number of Leavers Examined.

SCHOOL.	Total Number of Children Examined	12 TO 13 YEARS.				13 TO 14 YEARS.			
		Number of half- timers engaged in Cotton Industry		Number of half- timers engaged in Industries other than Cotton		Number of half- timers engaged in Cotton Industry		Number of half- timers engaged in Industries other than Cotton	
		M	F	M	F	M	F	M	F
St. Bartholomew's .....	13	4	9	1	4	3	3	3	1
St. Gabriel's .....	22	12	10	...	4	2	3	...	2
St. James's, Shear Brow .....	7	4	3	...	1	1	2	...	...
St. James's, Black-a-Moor .....	4	1	3	...	...	...	1	...	1
"    Guide .....	14	9	5	...	2	...	...	...	...
St. John's .....	37	18	19	3	3	1	1	...	...
St. Joseph's .....	62	30	32	1	11	3	10	...	2
St. Luke's .....	25	16	9	1	5	5	12	...	3
St. Mary's .....	49	23	26	1	9	2	...	1	1
St. Matthew's .....	39	16	23	1	1	10	7	...	2
St. Michael's .....	58	35	23	4	8	2	7	...	2
St. Paul's .....	63	26	37	4	10	9	2	1	3
St. Peter's C.E. ....	32	20	12	6	11	13	12	...	4
"    R.C. ....	43	23	20	3	3	8	3	...	2
St. Silas's .....	70	31	39	2	13	...	2	...	...
St. Stephen's .....	57	27	30	4	14	19	17	1	9
St. Thomas's .....	49	22	27	3	1	5	12	...	1
Wensley Fold .....	36	23	13	2	16	7	4	...	3
Whalley Range .....	65	35	30	...	6	...	4	...	1
Witton Infants .....	...	...	...	...	13	16	8	2	3
Total .....	1776	872	904	421	431	65	217	15	93
									77

TABLE XXVI.—Half-Timers engaged in the Cotton Industry.

AVERAGE HEIGHTS AND WEIGHTS OF HALF-TIMERS BETWEEN 12 AND 13 YEARS OF AGE.

SCHOOL	MALES					FEMALES				
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
Accrington Road .....	13	53.8	136.6	74.5	33.8	8	54.6	138.7	70.6	32.0
Audley Range .....	11	54.3	137.9	73.6	33.3	10	54.5	138.4	70.3	31.9
All Saints' .....	4	52.5	133.3	72.6	32.9	15	53.3	135.4	69.4	31.5
Bank Top .....	13	53.5	135.9	69.2	31.4	8	55.1	139.9	74.6	33.8
Blakey Moor C. ....	...	...	...	...	...	...	...	...	...	...
Cedar Street .....	10	54.3	137.9	72.3	32.8	14	54.7	138.9	73.6	33.3
Christ Church .....	25	54.4	138.2	73.6	33.3	25	54.2	137.7	72.6	32.9
Emmanuel .....	12	53.6	136.2	69.2	31.4	24	54.5	138.4	71.5	32.4
Furthegate .....	16	53.9	136.9	74.1	33.6	17	53.5	135.9	69.1	31.3
Four Lanes End .....	1	51.7	131.3	65.7	29.8	...	...	...	...	...
Griffin .....	6	54.3	137.9	71.2	32.3	25	54.5	138.4	72.7	33.0
Holy Trinity .....	12	52.9	134.4	69.0	31.3	17	54.5	138.4	72.2	32.7
Lower Darwen C. ....	5	55.7	141.5	77.3	35.0	8	57.1	145.1	79.9	36.2
Maudsley Street .....	8	54.0	137.1	70.4	31.9	3	54.6	138.7	68.9	31.3
Moss Street .....	23	54.5	138.4	72.5	32.9	25	54.9	139.4	71.8	32.6
Mill Hill C. ....	19	53.1	134.9	69.1	31.3	12	54.1	137.4	71.4	32.4
Norfolk Street .....	10	54.4	138.2	71.6	32.5	3	54.0	137.1	71.9	32.6
Park Road .....	20	53.4	135.6	68.7	31.1	18	53.5	135.9	68.6	31.1
Sacred Heart .....	3	55.7	141.5	74.8	33.9	2	56.3	143.0	75.5	34.2
St. Alban's .....	17	53.6	136.2	71.8	32.6	21	53.1	134.9	67.3	30.5
St. Anne's .....	9	53.6	136.2	70.3	31.9	23	53.8	136.6	70.9	32.1
St. Andrew's .....	9	55.2	140.2	76.6	34.7	6	56.6	143.7	73.2	33.2
St. Barnabas' .....	8	53.5	135.9	68.8	31.2	5	57.3	145.5	81.0	36.7

**TABLE XXVI.—Half-Timers engaged in the Cotton Industry.**  
**AVERAGE HEIGHTS AND WEIGHTS OF HALF-TIMERS BETWEEN 12 AND 13 YEARS OF AGE.**

SCHOOL	MALES.				FEMALES.					
	Number examined	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms	Number examined	Average height in inches	Average height in centimetres	Average weight in pounds	Average weight in kilograms
St. Bartholomew's	1	63.0	160.0	101.0	45.8	4	56.8	144.2	79.4	36.0
St. Gabriel's	8	55.2	140.2	74.3	33.7	4	57.5	146.0	77.0	34.9
St. James's, Shear Brow	1	54.0	137.1	77.2	35.0	1	50.7	128.8	66.0	29.9
"    Black-a-Moor	1	55.5	141.0	75.7	34.3	...	...	...	...	...
"    Guide	7	55.8	141.7	77.5	35.1	2	53.5	135.9	64.4	29.2
St. John's	3	53.8	136.6	78.0	35.4	3	54.7	138.9	71.2	32.3
St. Joseph's	20	52.4	133.1	68.1	30.9	11	54.9	139.4	74.8	33.9
St. Luke's	13	55.8	141.7	74.5	33.8	5	52.2	132.6	65.2	29.6
St. Mary's	10	53.7	136.4	71.9	32.6	9	56.1	142.6	75.0	34.0
St. Matthew's	9	54.9	139.4	73.8	33.5	8	55.4	140.7	74.1	33.6
St. Michael's	14	53.4	135.6	69.2	31.4	10	52.5	133.3	66.3	30.1
St. Paul's	4	55.2	140.2	74.2	33.6	11	52.9	134.4	71.3	32.3
St. Peter's C.E.	6	54.1	137.4	70.7	32.0	3	55.5	141.0	72.0	32.6
"    R.C.	11	52.1	132.3	64.5	29.2	13	52.7	133.8	68.1	30.9
St. Silas	2	51.7	131.3	61.7	28.0	4	55.2	140.2	76.5	34.7
St. Stephen's	13	54.9	139.4	73.7	33.4	14	54.9	139.4	72.9	33.1
St. Thomas	14	54.7	138.9	77.3	35.0	16	55.3	140.5	76.2	34.5
Wensley Fold	16	53.3	135.4	69.8	31.6	6	55.6	141.2	72.9	33.1
Whalley Range	14	52.3	132.8	69.5	31.5	13	53.7	136.4	68.7	31.1
Witton Infants	...	...	...	...	...	...	...	...	...	...
	421	54.2	137.7	72.7	33.0	431	54.6	138.7	72.0	32.6

**TABLE XXVII.—Half-Timers engaged in the Cotton Industry.**

SCHOOL	MALES.				FEMALES.					
	Number exam- ined	Average height in inches	Average height in metres	Average weight in pounds	Average weight in kilo- gr'mmes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- gr'mmes
Accrington Road .....	...	...	...	...	...	4	55.0	139.7	85.5	38.7
Audley Range .....	...	...	...	...	...	2	57.5	146.1	89.0	40.3
All Saints' .....	1	51.5	130.8	67.0	30.4	...	...	...	...	...
Bank Top .....	...	...	...	...	...	3	55.2	140.2	75.3	34.1
Blakey Moor C. ....	...	...	...	...	...	2	56.4	143.2	71.3	32.2
Cedar Street .....	4	55.2	140.2	73.4	33.3	4	52.3	132.8	66.4	30.1
Christ Church .....	5	57.2	145.3	85.0	38.5	2	60.0	152.4	96.5	43.8
Emmanuel .....	...	...	...	...	...	3	56.1	142.5	75.3	34.1
Furthegate .....	1	53.2	135.2	76.7	34.8	2	57.2	145.3	78.7	35.7
Four Lanes End .....	...	...	...	...	...	1	61.0	154.9	111.2	50.4
Griffin .....	...	...	...	...	...	2	58.5	148.6	89.2	40.4
Holy Trinity .....	2	52.8	134.1	70.5	32.0	...	...	...	...	...
Lower Darwen C. ....	...	...	...	...	...	4	56.0	142.2	72.8	33.0
Mandsley Street .....	1	55.7	141.5	83.2	37.7	4	58.8	149.4	88.6	40.2
Moss Street .....	3	56.2	142.8	83.0	37.6	4	55.6	141.2	75.5	34.2
Mill Hill C. ....	2	54.9	139.4	75.4	34.2	2	58.0	147.3	85.6	38.8
Norfolk Street .....	...	...	...	...	...	7	57.2	145.3	83.1	37.7
Park Road .....	4	52.7	133.8	70.6	32.0	1	58.0	147.3	74.0	33.6
Sacred Heart .....	1	55.0	139.7	74.0	33.6	11	55.9	142.0	80.8	36.6
St. Alban's .....	1	55.5	141.0	86.0	39.0	4	54.9	139.4	65.8	29.8
St. Anne's .....	2	54.5	138.4	68.3	31.0	6	56.9	144.5	79.8	36.2
St. Andrew's .....	2	54.7	138.9	75.2	34.1	5	56.3	143.0	70.8	32.1
St. Barnabas' .....	2	58.0	147.3	80.0	36.3	...	...	...	...	...



**TABLE XXVII.—Half-Timers engaged in the Cotton Industry.**  
AVERAGE HEIGHTS AND WEIGHTS OF HALF-TIMERS BETWEEN 13 AND 14 YEARS OF AGE.

SCHOOL	MALES.					FEMALES.				
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- gr'mmes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- gr'mmes
St. Bartholomew's .....	3	53.0	147.3	87.1	39.5	...	...	...	...	...
St. Gabriel's .....	2	56.0	142.2	84.2	38.2	1	...	...	111.5	50.6
St. James's, Shear Brow .....	...	...	...	...	...	...	...	...	...	...
"    Black-a-Moor .....	...	...	...	...	...	1	54.7	138.9	79.0	35.8
"    Guide .....	1	55.2	140.2	80.2	36.4	2	56.6	143.7	76.6	34.7
St. John's .....	2	53.5	135.9	67.3	30.5	3	59.1	150.1	90.5	41.0
St. Joseph's .....	...	...	...	...	...	4	57.0	144.8	84.2	38.2
St. Luke's .....	...	...	...	...	...	1	57.0	144.8	77.5	35.1
St. Mary's .....	1	57.0	144.8	75.5	34.2	7	57.1	145.1	87.7	39.8
St. Matthew's .....	4	55.6	141.2	79.7	36.1	3	57.2	145.3	81.5	36.9
St. Michael's .....	3	58.7	149.1	86.3	39.4	7	55.1	139.9	73.2	33.2
St. Paul's .....	...	...	...	...	...	4	56.7	144.0	74.2	33.6
St. Peter's C.E. ....	1	53.0	147.3	89.5	40.6	4	57.7	146.6	87.4	39.6
"    R.C. ....	9	55.8	141.7	77.2	35.0	5	56.4	143.2	83.2	37.7
St. Silas' .....	...	...	...	...	...	6	57.5	146.1	82.7	37.5
St. Stephen's .....	3	55.1	140.7	80.2	36.4	2	57.6	146.3	81.3	36.9
St. Thomas' .....	...	...	...	...	...	2	53.3	135.4	80.5	36.5
Wensley Fold .....	...	...	...	...	...	2	60.0	152.4	80.1	36.3
Whalley Range .....	1	56.7	144.0	84.0	38.1	3	54.2	137.6	71.7	32.5
Witton Infants .....	...	...	...	...	...	...	...	...	...	...
	61	55.5	141.0	74.4	33.7	130	56.9	144.5	81.6	37.0

TABLE XXVIII.—Half-Timers engaged in the Cotton Industry.

AVERAGE HEIGHTS AND WEIGHTS OF MALES AND FEMALES COMBINED, BETWEEN THE AGES  
OF 12 AND 13 YEARS, AND 13 AND 14 YEARS RESPECTIVELY.

SCHOOL	No. of boys and girls com- bined		12 TO 13 YEARS.			No. of boys and girls com- bined		13 TO 14 YEARS.			
	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- gr'mmes	Average height in centi- metres	Average weight in pounds	Average weight in kilo- gr'mmes	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- gr'mmes
Accrington Road .....	21	54.2	137.7	72.5	32.9	4	55.0	139.7	85.5	38.7	
Audley Range .....	21	54.4	138.2	71.9	32.6	2	57.5	146.0	89.0	40.3	
All Saints' .....	19	52.9	134.4	71.0	32.2	1	51.5	130.8	67.0	30.4	
Bank Top .....	21	54.3	137.9	71.9	32.6	3	55.2	140.2	75.3	34.1	
Cedar Street .....	24	54.5	138.4	72.9	33.1	6	55.8	141.7	72.3	32.8	
Christ Church .....	50	54.3	137.9	73.1	33.1	9	54.8	139.2	75.7	34.3	
Emmanuel .....	36	54.1	137.4	70.4	31.9	2	60.0	152.4	96.5	43.8	
Furthergate .....	33	53.7	136.4	71.6	32.5	4	54.6	138.7	76.0	34.5	
Four Lanes End .....	1	51.7	131.3	65.7	29.8	2	57.2	145.3	78.7	35.7	
Griffin .....	31	54.4	138.2	71.9	32.6	1	61.0	154.9	111.2	50.4	
Holy Trinity .....	29	53.2	135.2	70.6	32.0	4	55.6	141.2	79.3	36.2	
Lower Darwen C. ....	13	56.4	143.2	78.6	35.7	...	...	...	...	...	
Maudsley Street .....	11	54.3	137.9	69.6	31.6	5	55.8	141.7	78.0	35.4	
Moss Street .....	48	54.7	138.9	72.1	32.7	7	57.5	146.0	85.8	38.9	
Mill Hill C. ....	31	53.6	136.2	70.2	31.8	6	55.2	140.2	75.4	34.2	
Norfolk Street .....	13	54.2	137.7	71.7	32.5	2	58.0	147.3	85.6	38.8	
Park Road .....	38	53.4	135.6	68.6	31.1	11	54.9	139.4	76.8	34.8	
Sacred Heart .....	5	56.0	142.2	75.1	34.0	2	56.5	143.5	74.0	33.6	
St. Alban's .....	38	53.3	135.4	69.5	31.5	12	55.7	141.5	83.4	37.7	
St. Anne's .....	37	53.7	136.4	70.6	32.0	6	54.7	138.9	67.1	30.4	
St. Andrew's .....	15	55.9	142.0	72.4	32.9	8	55.8	141.7	77.5	35.1	
St. Barnabas' .....	13	55.4	140.7	74.9	34.0	7	57.1	145.1	75.4	34.2	



TABLE XXVIII.--Continued.—Half-Timers engaged in the Cotton Industry.

AVERAGE HEIGHTS AND WEIGHTS OF MALES AND FEMALES COMBINED, BETWEEN THE AGES  
OF 12 AND 13 YEARS, AND 13 AND 14 YEARS RESPECTIVELY.

SCHOOL	No. of boys and girls com- bined			12 TO 13 YEARS.			13 TO 14 YEARS.		
	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- gr'mmes	No. of boys and girls com- bined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- gr'mmes
St. Bartholomew's .....	59.9	152.2	90.2	40.9	3	58.0	147.3	87.1	39.5
St. Gabriel's .....	56.3	143.0	75.6	34.3	3	58.7	149.1	97.8	44.4
St. James's, Shear Brow .....	52.3	132.8	71.6	32.5	...	...	...	...	35.8
" " Black-a-Moor .....	55.5	141.0	75.7	34.3	1	54.7	138.9	79.0	35.6
" " Guide .....	54.6	138.7	70.9	32.1	3	55.9	142.0	78.4	35.8
St. John's .....	54.2	137.7	74.6	33.8	5	56.3	143.0	78.9	38.2
St. Joseph's .....	53.7	136.4	71.4	32.4	4	57.0	144.8	84.2	35.1
St. Luke's .....	54.0	137.1	69.8	31.7	1	57.0	144.8	77.5	35.1
St. Mary's .....	55.1	139.4	73.4	33.3	8	57.1	145.1	81.6	37.0
St. Matthew's .....	54.9	139.9	73.9	33.5	7	56.4	143.2	80.6	36.6
St. Michael's .....	52.9	134.4	67.7	30.7	10	56.9	144.5	80.1	36.3
St. Paul's .....	54.0	137.1	72.8	33.0	4	55.7	144.0	74.2	33.6
St. Peter's C.E. ....	54.8	139.2	71.3	32.3	5	57.8	146.8	88.4	40.1
" " R.C. ....	52.4	133.1	66.3	30.1	14	56.1	142.6	80.2	36.4
St. Silas .....	53.4	135.6	69.1	31.3	6	57.5	146.0	82.7	37.5
St. Stephen's .....	54.9	139.4	73.3	33.2	5	56.5	143.5	80.7	36.3
St. Thomas' .....	55.0	139.7	76.8	34.8	2	53.3	135.4	80.5	36.3
Wensley Fold .....	54.4	138.2	71.3	32.3	2	60.0	152.4	80.1	36.3
Whalley Range .....	53.0	134.6	69.1	31.3	4	55.4	140.7	77.3	35.3
	54.4	138.2	72.3	32.8	191	56.2	142.8	78.0	35.4
	852								

TABLE XXIX.—Half-Timers engaged in Industries other than Cotton.

AVERAGE HEIGHTS AND WEIGHTS AT 12 TO 13 YEARS OF AGE.

SCHOOL	MALES.				FEMALES.					
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
Acerrington Road	1	52.2	132.6	74.2	33.6	...	...	...	...	...
Audley Range	1	56.0	142.2	84.7	38.4	1	55.7	141.5	68.7	31.1
All Saints'	...	...	...	...	...	...	...	...	...	...
Bank Top	2	52.7	133.8	71.8	32.6	...	...	...	...	...
Blakey Moor C.	...	...	...	...	...	...	...	...	...	...
Cedar Street	...	...	...	...	...	...	...	...	...	...
Christ Church	1	60.2	152.9	81.0	36.7	...	...	...	...	...
Emmanuel	...	...	...	...	...	...	...	...	...	...
Furthergate	1	52.0	132.1	65.0	29.5	1	55.2	140.2	92.0	41.7
Four Lanes End	...	...	...	...	...	...	...	...	...	...
Griffin	3	55.7	141.5	75.1	34.0	...	...	...	...	...
Holy Trinity	4	52.9	134.4	69.7	31.6	...	...	...	...	...
Lower Darwen C.	...	...	...	...	...	...	...	...	...	...
Maud-ley Street	2	53.0	134.6	71.7	32.5	1	56.0	142.2	69.0	31.3
Mess Street	4	54.2	137.7	76.0	34.4	2	51.6	131.0	64.8	31.0
Mill Hill C.	...	...	...	...	...	...	...	...	...	...
Norfolk Street	1	56.0	142.2	79.7	36.1	...	...	...	...	...
Park Road	1	52.5	133.0	68.2	30.9	1	52.0	132.1	74.5	33.8
Sacred Heart	...	...	...	...	...	...	...	...	...	...
St. Alban's	6	52.4	133.1	69.0	31.3	4	52.0	132.1	66.7	30.2
St. Anne's	9	52.2	132.6	71.4	32.4	4	56.2	142.8	85.5	38.7
St. Andrew's	...	...	...	...	...	...	...	...	...	...
St. Barnabas'	4	54.6	138.7	73.5	33.3	1	56.0	142.2	72.2	32.7

TABLE XXIX.—Continued.—Half-Timers engaged in Industries other than Cotton.

AVERAGE HEIGHTS AND WEIGHTS AT 12 TO 13 YEARS OF AGE.

SCHOOL	MALES.				FEMALES.					
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
St. Bartholomew's .....	...	...	...	...	...	1	51·7	131·3	62·7	28·4
St. Gabriel's .....	...	...	...	...	...	...	...	...	...	...
St. James's, Shear Brow .....	...	...	...	...	...	...	...	...	...	...
"    Black-a-Moor .....	...	...	...	...	...	...	...	...	...	...
"    Guide .....	...	...	...	...	...	...	...	...	...	...
St. John's .....	3	55·2	140·2	74·0	33·6	1	54·2	137·7	87·2	39·5
St. Joseph's .....	1	53·5	135·9	69·7	31·6	3	54·7	138·9	76·8	34·8
St. Luke's .....	1	53·0	134·6	63·2	30·9	1	51·0	129·5	61·0	27·7
St. Mary's .....	1	48·2	122·4	54·2	24·6	1	53·2	135·2	65·7	29·8
St. Matthew's .....	1	54·2	137·7	71·7	32·5	3	54·7	138·9	72·5	32·9
St. Michael's .....	4	54·6	138·7	73·2	33·2	1	52·7	133·8	61·5	27·9
St. Paul's .....	6	52·9	134·4	66·2	30·0	6	55·7	141·5	76·3	34·6
St. Peter's C.E. ....	1	53·2	135·2	70·5	32·0	...	...	...	...	...
"    R.C. ....	...	...	...	...	...	...	...	...	...	...
St. Silas' .....	2	54·0	137·1	73·2	33·2	2	54·2	137·7	63·8	28·9
St. Stephen's .....	3	56·7	144·0	74·8	33·9	1	55·7	141·5	72·2	32·7
St. Thomas' .....	2	53·1	134·9	70·0	31·7	...	...	...	...	...
Wensley Fold .....	...	...	...	...	...	...	...	...	...	...
Whalley Range .....	...	...	...	...	...	1	58·2	147·8	80·2	36·4
Witton Infants .....	...	...	...	...	...	...	...	...	...	...
	65	53·4	135·6	71·4	32·4	36	54·2	137·7	72·3	32·8

**TABLE XXX.—Half-Timers engaged in Industries other than Cotton.**  
**AVERAGE HEIGHTS AND WEIGHTS AT 13 TO 14 YEARS OF AGE.**

SCHOOL	MALES.				FEMALES.					
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- gr'mmes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- gr'mmes
Accrington Road .....	1	53·5	135·9	75·5	34·2	...	...	...	...	...
Andley Range .....	...	...	...	...	...	...	...	...	...	...
All Saints' .....	...	...	...	...	...	...	...	...	...	...
Bank Top .....	...	...	...	...	...	...	...	...	...	...
Blakey Moor C. ....	...	...	...	...	...	1	53·0	134·6	68·5	31·1
Cedar Street .....	...	...	...	...	...	...	...	...	...	...
Christ Church .....	...	...	...	...	...	...	...	...	...	...
Emmanuel .....	...	...	...	...	...	...	...	...	...	...
Furthergate .....	2	54·6	138·7	76·7	34·8	2	59·3	150·6	93·7	42·5
Four Lanes End .....	...	...	...	...	...	...	...	...	...	...
Griffin .....	...	...	...	...	...	...	...	...	...	...
Holy Trinity .....	...	...	...	...	...	...	...	...	...	...
Lower Darwen C. ....	...	...	...	...	...	...	...	...	...	...
Maudsley Street .....	1	51·2	130·0	65·0	29·5	1	57·2	145·3	88·2	40·0
Moss Street .....	3	58·7	149·1	91·8	41·6	1	59·0	149·8	86·7	39·3
Mill Hill C. ....	...	...	...	...	...	...	...	...	...	...
Norfolk Street .....	...	...	...	...	...	...	...	...	...	...
Park Road .....	1	58·7	149·1	88·0	39·9	...	...	...	...	...
Sacred Heart .....	...	...	...	...	...	1	56·0	142·2	76·0	34·5
St. Alban's .....	...	...	...	...	...	2	57·9	147·0	88·6	40·2
St. Anne's .....	1	52·0	132·1	66·2	30·0	1	51·7	131·3	61·0	27·7
St. Andrew's .....	...	...	...	...	...	...	...	...	...	...
St. Barnabas' .....	2	56·5	143·5	74·6	33·8	...	...	...	...	...

TABLE XXX.—Continued. Half-Timers engaged in Industries other than Cotton.

AVERAGE HEIGHTS AND WEIGHTS AT 13 TO 14 YEARS OF AGE.

SCHOOL	MALES.					FEMALES.				
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
St. Bartholomew's .....	..	..	..	..	..	..	..	..	..	..
St. Gabriel's .....	1	61.2	155.4	99.5	45.1	..	..	..	..	..
St. James's, Shear Brow .....	..	..	..	..	..	..	..	..	..	..
"    Black-a-Moor .....	..	..	..	..	..	..	..	..	..	..
"    Guide .....	..	..	..	..	..	..	..	..	..	..
St. John's .....	1	54.5	138.4	82.7	37.5	..	..	..	..	..
St. Joseph's .....	..	..	..	..	..	1	56.7	144.0	85.5	38.7
St. Luke's .....	..	..	..	..	..	..	..	..	..	..
St. Mary's .....	..	..	..	..	..	..	..	..	..	..
St. Matthew's .....	..	..	..	..	..	..	..	..	..	..
St. Michael's .....	1	51.0	129.5	67.0	30.4	..	..	..	..	..
St. Paul's .....	..	..	..	..	..	..	..	..	..	..
St. Peter's C.E. ....	..	..	..	..	..	..	..	..	..	..
"    R.C. ....	..	..	..	..	..	1	58.7	149.1	81.7	37.0
St. Silas' .....	..	..	..	..	..	..	..	..	..	..
St. Stephen's .....	1	55.7	141.5	82.0	37.2	..	..	..	..	..
St. Thomas' .....	..	..	..	..	..	..	..	..	..	..
Wensley Fold .....	..	..	..	..	..	..	..	..	..	..
Whalley Range .....	..	..	..	..	..	2	57.7	146.6	80.2	36.4
Witton Infants .....	..	..	..	..	..	..	..	..	..	..
	15	55.2	140.2	79.0	35.8	13	56.7	144.0	81.0	36.7



TABLE XXXI. — Non-Half-Timers.

AVERAGE HEIGHTS AND WEIGHTS OF NON-HALF-TIMERS AT 12 TO 13 YEARS OF AGE.

SCHOOL	MALES.				FEMALES.					
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- gr'mmes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- gr'mmes
Accrington Road	4	54.7	138.9	73.7	33.4	1	53.0	134.6	67.0	30.4
Audley Range	4	53.7	136.4	73.2	33.2	4	53.0	134.6	67.8	30.7
All Saints'	1	52.0	132.1	66.7	30.2	2	52.1	132.3	69.5	31.5
Bank Top	5	52.3	132.8	65.1	29.5	4	55.4	140.7	73.8	33.5
Blakey Moor C.	...	...	...	...	...	...	...	...	...	...
Cedar Street	6	53.4	135.6	68.8	31.2	9	54.0	137.1	68.6	31.1
Christ Church	6	53.2	135.2	71.4	32.4	4	51.4	130.5	60.0	27.2
Emmanuel	6	54.1	137.4	69.3	31.4	2	56.3	143.0	77.5	35.1
Furthergate	5	53.5	135.9	68.9	31.3	3	54.3	137.9	73.7	33.4
Four Lanes End	2	56.2	142.8	71.8	32.6	2	51.3	130.3	61.7	28.0
Griffin	4	53.4	135.6	68.6	31.1	2	54.1	137.4	73.1	33.1
Holy Trinity	7	54.9	139.4	72.7	33.0	11	54.7	138.9	72.6	32.9
Lower Darwen C.	...	...	...	...	...	3	58.2	147.8	84.7	38.4
Maudsley Street	1	52.0	132.1	63.5	28.8	...	...	...	...	...
Moss Street	8	53.1	134.9	69.1	31.3	5	53.3	135.4	66.0	29.9
Mill Hill C.	10	53.3	135.4	70.5	32.0	6	54.3	137.9	68.8	31.2
Norfolk Street	1	54.5	138.4	70.0	31.7	2	53.0	134.6	67.1	30.4
Park Road	11	54.0	137.1	72.6	32.9	7	51.7	131.3	64.3	29.1
Sacred Heart	...	...	...	...	...	2	55.2	140.2	74.5	33.8
St. Alban's	8	52.9	134.4	71.9	32.6	13	53.5	135.9	69.9	31.7
St. Anne's	10	52.7	133.8	70.7	32.0	14	54.7	138.9	77.6	35.2
St. Andrew's	5	55.7	141.5	75.8	34.4	2	57.0	144.8	80.1	36.3
St. Barnabas'	6	53.9	136.9	70.7	32.0	7	54.1	137.4	69.0	31.3

TABLE XXXI. — Continued. — Non-Half-Timers.

AVERAGE HEIGHTS AND WEIGHTS OF NON-HALF-TIMERS AT 12 TO 13 YEARS OF AGE.

SCHOOL	MALES.				FEMALES.					
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
St. Bartholomew's .....	...	...	...	...	...	3	54.7	138.9	70.4	31.9
St. Gabriel's .....	2	56.0	142.2	73.3	33.2	3	53.4	135.6	65.0	29.5
St. James's, Shear Brow .....	1	53.0	134.6	63.5	28.8	2	56.5	143.5	74.8	33.9
St. James's, Black-a-Moor .....	...	...	...	...	...	1	55.5	141.0	76.2	34.5
St. John's .....	1	56.7	144.0	71.7	32.5	1	54.2	137.7	65.5	29.7
St. Joseph's .....	3	54.5	138.4	71.6	32.5	10	56.1	142.6	74.7	33.9
St. Luke's .....	5	51.9	131.8	64.5	29.2	12	53.1	134.9	66.7	30.2
St. Mary's .....	2	53.3	135.4	78.0	35.4	...	...	...	...	...
St. Mary's .....	10	53.2	135.2	69.3	31.4	7	52.8	134.1	65.0	29.5
St. Matthew's .....	2	51.6	131.0	62.8	28.5	7	54.2	137.7	70.1	31.8
St. Michael's .....	9	53.1	134.9	67.7	30.7	2	54.3	137.9	66.1	30.0
St. Paul's .....	13	54.7	138.9	73.9	33.5	12	54.4	138.2	69.9	31.7
St. Peter's C.E. ....	8	53.1	134.9	69.9	31.7	3	54.1	137.4	74.8	33.9
St. Peter's R.C. ....	...	...	...	...	...	2	53.8	136.6	76.3	34.6
St. Silas' .....	19	56.2	142.8	75.6	34.3	17	53.8	136.6	65.0	29.5
St. Stephen's .....	5	57.0	144.8	79.2	35.9	12	55.4	140.7	75.2	34.1
St. Thomas' .....	4	53.9	136.9	73.0	33.1	6	55.1	139.9	78.9	35.8
Wensley Fold .....	7	55.6	141.2	79.1	35.8	4	54.0	137.1	69.0	31.3
Whalley Range .....	16	52.2	132.6	65.8	29.8	8	55.1	139.9	72.3	32.8
Witton Infants .....	...	...	...	...	...	...	...	...	...	...
	213	53.9	136.9	70.6	32.0	217	54.2	137.7	70.8	32.1



TABLE XXXII.—Non-Half-Timers.

AVERAGE HEIGHTS AND WEIGHTS OF NON-HALF-TIMERS AT 13 TO 14 YEARS.

SCHOOL	MALES.				FEMALES.					
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- gr'mmes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- gr'mmes
Accington Road	3	53.0	134.6	70.3	31.9	1	56.5	143.5	87.2	39.5
Audley Range	1	57.2	145.3	78.7	35.7	3	55.5	141.0	74.2	33.5
All Saints'	...	...	...	...	...	...	...	...	...	...
Bank Top	...	...	...	...	...	1	57.2	145.3	77.7	35.2
Blakey Moor C.	...	...	...	...	...	...	...	...	...	...
Cedar Street	5	56.0	142.2	77.6	35.2	3	56.1	142.6	79.7	36.1
Christ Church	...	...	...	...	...	...	...	...	...	...
Emmanuel	...	...	...	...	...	...	...	...	...	...
Furthergate	1	55.2	140.2	75.2	34.1	4	54.1	137.4	74.9	34.0
Four Lanes End	5	55.9	142.0	77.2	35.0	1	61.2	155.4	108.7	49.3
Griffin	2	57.3	145.5	77.0	34.9	...	...	...	...	...
Holy Trinity	6	55.5	141.0	73.8	33.5	3	52.1	132.3	63.2	23.6
Lower Darwen C.	2	56.3	143.0	80.7	36.6	...	...	...	...	...
Maudsley Street	2	54.0	137.1	67.0	30.4	2	54.0	137.1	83.4	37.7
Moss Street	1	56.7	144.0	74.2	33.6	4	54.4	138.2	68.4	31.0
Mill Hill C.	1	52.2	132.6	71.2	32.3	2	57.0	144.8	71.0	32.2
Norfolk Street	...	...	...	...	...	...	...	...	...	...
Park Road	4	56.7	144.0	78.1	35.4	2	53.1	134.9	63.3	23.9
Sacred Heart	1	57.0	144.3	81.0	36.7	4	55.4	140.7	72.9	33.1
St. Alban's	7	55.0	139.7	73.9	33.5	2	54.4	138.2	76.3	34.6
St. Anne's	7	56.7	141.5	79.1	35.8	4	56.4	143.2	86.7	39.3
St. Andrew's	2	55.6	141.2	74.6	33.8	...	...	...	...	...
St. Barnabas'	1	56.7	144.0	69.2	31.4	2	56.2	142.8	77.3	35.0

TABLE XXXII.—Continued.—Non-Half-Timers.

AVERAGE HEIGHTS AND WEIGHTS OF NON-HALF-TIMERS AT 13 TO 14 YEARS.

SCHOOL	MALES.					FEMALES.				
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
St. Bartholomew's .....	...	...	...	...	...	1	56.0	142.2	86.2	39.1
St. Gabriel's .....	...	...	...	...	...	2	60.8	154.4	96.2	43.6
St. James's, Shear Brow .....	1	58.0	147.3	95.5	43.3	...	...	...	...	...
" " Black-a-Moor .....	...	...	...	...	...	1	53.7	136.4	74.7	33.9
" " Guide .....	...	...	...	...	...	...	...	...	...	...
St. John's .....	7	54.8	139.2	72.9	33.0	2	59.8	151.9	83.2	37.7
St. Joseph's .....	3	52.8	134.1	73.3	33.2	2	55.3	140.5	76.5	34.7
St. Luke's .....	...	...	...	...	...	1	54.7	138.9	85.5	38.7
St. Mary's .....	1	56.2	142.8	76.0	34.5	2	58.2	147.8	87.5	39.7
St. Matthew's .....	...	...	...	...	...	2	56.5	143.5	81.5	36.9
St. Michael's .....	4	52.4	133.1	67.8	30.7	3	54.7	138.9	73.2	33.2
St. Paul's .....	3	52.3	132.8	67.0	30.4	4	58.6	148.8	89.2	40.4
St. Peter's C.E. ....	4	55.2	140.2	72.8	33.0	2	53.9	136.9	75.8	34.4
" " R.C. ....	3	53.7	136.4	73.6	33.3	...	...	...	...	...
St. Silas' .....	8	56.8	144.2	81.0	36.7	9	58.2	147.8	83.6	37.9
St. Stephen's .....	2	52.3	132.8	67.1	30.4	1	58.7	149.1	86.7	39.3
St. Thomas' .....	2	56.8	144.2	70.6	32.0	3	53.3	135.4	77.2	35.0
Wensley Fold .....	...	...	...	...	...	1	59.5	151.1	101.7	46.1
Whalley Range .....	4	56.5	143.5	79.7	36.1	3	55.4	140.7	72.2	32.7
Witton Infants .....	...	...	...	...	...	...	...	...	...	...
	93	55.3	140.5	75.0	34.0	77	56.1	142.5	80.5	36.5



**TABLE XXXIII.**  
**Half-Timers engaged in Cotton Industry.**

	12 TO 13 YEARS OF AGE.			
	MALES.		FEMALES.	
	Height in inches.	Weight in pounds	Height in inches.	Weight in pounds.
Standard ... ..	53·7	73·0	53·9	74·9
Blackburn Schools ... ..	54·2	72·7	54·6	72·0
Result ... ..	0·5 above	0·3 below.	0·7 above.	2·9 below.

	13 TO 14 YEARS OF AGE.			
	MALES.		FEMALES.	
	Height. in inches.	Weight in pounds.	Height. in inches.	Weight in pounds.
Standard ... ..	55·8	79·0	56·5	84·9
Blackburn Schools ... ..	55·5	74·4	56·9	81·6
Result ... ..	0·3 below.	4·6 below.	0·4 above.	3·3 below.

*Therefore*

Males at 12—13 were 0·5 inches above the standard in height.

„ „ 0·3 pounds below „ „ weight.

„ 13—14 were 0·3 inches below „ „ height.

„ „ 4·6 pounds below „ „ weight.

*and*

Females at 12—13 were 0·7 inches above the standard in height.

„ „ 2·9 pounds below „ „ weight.

„ 13—14 were 0·4 inches above „ „ height.

„ „ 3·3 pounds below „ „ weight.

**TABLE XXXIV.**  
**Half-Timers other than Cotton.**

	12 TO 13 YEARS OF AGE.			
	MALES.		FEMALES.	
	Height in inches	Weight in pounds.	Height in inches.	Weight in pounds.
Standard ... ..	53·7	73·0	53·9	74·9
Blackburn Schools ... ..	53·4	71·4	54·2	72·3
Result ... ..	0·3 below.	1·6 below.	0·3 above.	2·6 below

	13 TO 14 YEARS OF AGE.			
	MALES.		FEMALES.	
	Height in inches.	Weight in pounds.	Height in inches.	Weight in pounds.
Standard ... ..	55·8	79·0	56·5	84·9
Blackburn Schools ... ..	55·2	79·0	56·7	81·0
Result ... ..	0·6 below.	0·0 equal	0·2 above.	3·9 below.

*Therefore*

Males at 12—13 were 0·3 inches below the standard in height.

„ „ 1·6 pounds below „ „ weight.

„ 13—14 were 0·6 inches below „ „ height.

„ „ equal to the standard in weight.

*and*

Females at 12—13 were 0·3 inches above the standard in height.

„ „ 2·6 pounds below „ „ weight.

„ 13—14 were 0·2 inches above „ „ height.

„ „ 3·9 pounds below „ „ weight.

**TABLE XXXV.**  
**Non-Half-Timers.**

	12 TO 13 YEARS OF AGE.			
	MALES.		FEMALES.	
	Height in inches.	Weight in pounds.	Height in inches.	Weight in pounds.
Standard ... ..	53·7	73·0	53·9	74·9
Blackburn Schools ... ..	53·9	70·6	54·2	70·8
Result ... ..	0·2 above.	2·4 below.	0·3 above.	4·1 below.

  

	13 TO 14 YEARS OF AGE.			
	MALES.		FEMALES.	
	Height in inches.	Weight in pounds.	Height in inches.	Weight in pounds.
Standard ... ..	55·8	79·0	56·5	84·9
Blackburn Schools ... ..	55·3	75·0	56·1	80·5
Result ... ..	0·5 below.	4·0 below.	0·4 below.	4·4 below.

*Therefore*

Males at 12—13 were 0.2 inches above the standard in height.

„ „ 2.4 pounds below „ „ weight.

„ 13—14 were 0.5 inches below „ „ height.

„ „ 4.0 pounds below „ „ weight.

*and*

Females at 12—13 were 0.3 inches above the standard in height.

„ „ 4.1 pounds below „ „ weight.

„ 13—14 were 0.4 inches below „ „ height.

„ „ 4.4 pounds below „ „ weight.



**TABLE XXXVI.**  
**Conditions, Defects, etc., found in the 1776 Children leaving School.**

SCHOOL	Nutrition			Clothing			Footgear			Cleanliness			Teeth			Nose and Throat		Ext. Eye Disease		Ext. Ear Dis.	
	Excellent	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Bad	Good	Defective	Good	Defective	Good
Accrington Road .....	4	30	2	..	4	32	..	34	2	..	24	10	2	2	14	20	33	3	34	36	..
Audley Range .....	3	30	4	..	11	25	1	37	..	..	26	10	1	1	13	20	35	2	35	37	..
All Saints' .....	1	17	5	..	2	18	3	22	1	..	7	14	2	2	5	8	23	..	23	22	1
Bank Top .....	..	28	8	..	3	32	1	33	3	..	12	21	3	3	1	16	31	5	34	34	2
Blakey Moor C. ....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cedar Street .....	8	36	7	..	20	31	..	48	3	..	33	14	4	4	8	21	48	3	50	50	1
Christ Church .....	..	60	12	1	1	47	25	66	4	3	58	15	..	..	15	54	66	7	72	73	..
Emmanuel .....	..	33	12	1	24	22	..	40	6	..	31	14	1	1	4	39	3	9	44	46	..
Furthergate .....	7	42	7	..	13	41	2	51	3	2	43	12	1	1	7	32	17	7	56	56	..
Four Lanes End .....	..	12	1	..	5	8	..	13	..	..	10	3	..	..	6	6	13	..	12	13	..
Griffin .....	12	28	3	..	7	36	..	42	1	..	32	11	..	..	2	16	43	..	43	43	..
Holy Trinity .....	4	49	11	..	19	39	6	57	6	1	39	21	4	4	9	23	55	9	62	61	3
Lower Darwen C. ....	4	13	1	..	6	12	..	18	..	..	16	1	1	1	3	8	18	..	17	18	..
Maudsley Street .....	3	16	7	..	2	24	..	26	..	..	15	10	1	1	3	11	24	2	25	25	1
Moss Street .....	10	60	13	..	29	50	4	79	2	2	46	33	4	4	7	46	30	5	82	81	2
Mill Hill C. ....	4	46	6	..	16	37	3	56	..	..	41	9	6	6	3	24	52	4	55	56	..
Norfolk Street .....	3	11	5	..	3	16	..	18	1	..	13	5	1	1	1	18	18	1	19	19	..
Park Road .....	6	59	11	..	16	59	1	73	3	..	39	26	11	10	31	35	69	7	75	74	2
Sacred Heart .....	..	13	2	..	5	10	..	14	1	..	12	3	..	2	6	7	13	2	15	15	..
St. Alban's .....	6	71	15	..	14	66	12	80	10	2	47	39	6	4	37	51	86	6	90	90	2
St. Anne's .....	6	71	16	..	8	73	12	77	15	3	44	38	11	9	35	49	85	8	93	93	..
St. Andrew's .....	1	24	6	1	3	28	1	27	3	2	21	9	2	2	16	14	29	3	32	31	1
St. Barnabas' .....	4	34	5	..	17	25	1	38	4	1	31	11	1	2	22	19	41	2	42	43	..

TABLE XXXVI.—Continued.

Conditions, Defects, etc., found in the 1776 Children leaving School.

SCHOOL	Nutrition			Clothing			Footgear			Cleanliness			Teeth			Nose and Throat		Ext. Eye Disease		Ext. Ear Disease	
	Excellent	Good	Medium	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Bad	Good	Defective	Good	Defective	Good	Defective
St. Bartholomew's ..	4	9	2	1	12	...	13	...	...	7	4	2	1	9	3	3	...	13	13	...	13
St. Gabriel's .....	1	19	1	2	15	...	22	...	...	16	5	8	1	11	4	8	...	21	22	...	22
St. James', Snear Br'w	1	5	1	2	5	...	4	...	...	5	2	4	...	3	4	7	...	7	7	...	7
Black-a-M'r .....	1	3	1	1	3	...	4	...	...	2	2	3	...	...	3	2	...	4	4	...	4
" Guide .....	4	9	1	3	10	...	13	...	...	12	1	3	...	1	3	13	...	14	14	...	14
St. John's .....	3	28	6	17	20	...	36	...	...	28	9	14	...	6	3	34	...	36	36	...	36
St. Joseph's .....	5	43	9	7	48	...	52	...	...	20	40	21	...	6	21	56	...	57	61	...	61
St. Luke's .....	3	20	2	4	21	...	22	...	...	19	5	10	...	3	15	24	...	23	25	...	25
St. Mary's .....	37	12	...	8	39	...	42	...	...	21	24	27	...	2	20	48	...	48	48	...	48
St. Matthew's .....	28	5	...	7	31	...	38	...	...	26	12	14	...	3	14	37	...	38	39	...	39
St. Michael's .....	6	49	7	8	46	...	53	...	...	27	27	20	...	6	32	53	...	58	58	...	58
St. Paul's .....	2	43	16	4	37	...	53	...	...	37	20	4	...	17	42	51	...	62	63	...	63
St. Peter's C.E. ....	...	29	3	...	21	...	29	...	...	3	8	4	...	4	15	31	...	31	32	...	32
" R.C. ....	3	30	10	...	35	...	38	...	...	15	26	15	...	5	23	40	...	42	43	...	43
St. Silas' .....	5	54	10	1	34	...	61	...	...	53	16	31	...	4	35	67	...	65	68	...	68
St. Stephen's .....	5	45	7	19	37	...	51	...	...	42	11	16	...	11	30	52	...	53	56	...	56
St. Thomas' .....	7	35	6	1	34	...	45	...	...	36	13	20	...	6	20	42	...	46	48	...	48
Wensley Fold .....	1	26	8	1	6	...	35	...	...	25	9	15	...	1	15	33	...	36	35	...	35
Whalley Range .....	3	55	7	...	39	...	60	...	...	46	14	27	...	6	32	64	...	63	63	...	63
Witton Infants .....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total .....	140	1355	271	10	477	1217	1620	126	30	1097	577	102	186	873	717	1635	141	1723	1751	53	25

**TABLE XXXVII.**  
**Conditions, etc., found amongst the 1776 Leavers.**

	Excellent.	Good.	Medium.	Bad.
	Percentage	Percentage	Percentage	Percentage
Nutrition .....	7·8	76·3	15·2	0·6
Clothing .....	...	26·8	68·5	4·6
Footgear .....	...	91·2	7·1	1·6
Cleanliness .....	...	61·7	32·5	5·7
Teeth ..... ..	...	10·5	49·1	40·3

  

	Good	Defective.
	Percentage	Percentage
Nose and Throat .....	92·0	7·9
External Eye Defects .....	97·0	2·9
External Ear Defects (Otorrhœa).....	98·5	1·4

Amongst the 1,776 leavers examined the following defects were found:—

	Per cent.
Slightly Enlarged Neck Glands, both sides.	20.0
Slightly Enlarged Neck Glands, one side...	13.3
Enlarged Tonsils .....	6.3
All Eye Defects .....	6.3
Dirty and Sore Heads .....	5.6
All Ear Defects .....	2.6
Anæmia .....	2.1
Skin .....	1.6
Circulatory Diseases .....	1.3
Speech Defects .....	0.9
Greatly Enlarged Neck Glands, one side...	0.9
Adenoids .....	0.8
Tonsils and Adenoids .....	0.7
Greatly Enlarged Neck Glands, both sides...	0.4
Respiratory Diseases .....	0.3
Rickets .....	0.2
Other Conditions of Nose and Throat .....	0.2
Nervous Diseases .....	0.1
Ringworm .....	0.1
Developmental Defects .....	0.1
Tubercular Diseases .....	0.05
Backward Children .....	0.05
Other Diseases .....	0.7

#### D. HIGHER GRADE SCHOOL CHILDREN.

In this Group, 610 children were examined, of whom 320 were entrants and 290 were children examined for the second time.

Tables XXXVIII. to XLV. show the various particulars relating to these 610 children.

TABLE XXXVIII.—Higher Grade Schools.

Numbers and Age periods of the newly admitted Children examined.

SCHOOL.	5-6		6-7		7-8		8-9		9-10		10-11		11-12		12-13		13-14		14-15		15-16		Total.		Total.
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
St. Alban's Digher Grade	...	...	...	...	2	...	1	...	6	...	4	...	4	...	8	...	4	...	...	...	...	...	29	...	29
Parish Higher Grade .....	4	10	6	...	3	2	3	6	9	4	10	15	5	7	12	12	11	6	...	3	...	5	63	70	133
Higher Elementary.....	...	...	...	...	...	...	...	...	...	...	...	...	4	5	36	28	36	10	14	15	4	6	94	64	158
Totals.....	4	10	6	...	5	2	4	6	15	4	14	15	13	12	56	40	51	16	14	18	4	11	186	134	320



**TABLE XXXIX.**  
**Higher Grade Schools. Non-Half-Timers.**

SCHOOL.	5 TO 6 YEARS.									
	MALES.					FEMALES.				
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
St. Alban's Higher Grade .....	...	42.2	107.2	42.9	19.4	...	42.3	107.4	40.7	18.4
Parish Higher Grade .....	4	...	...	...	...	10	...	...	...	...
Higher Elementary .....	...	...	...	...	...	...	...	...	...	...
Average for the Schools .....		42.2	107.2	42.9	19.4		42.3	107.4	40.7	18.4
SCHOOL.	6 TO 7 YEARS.									
	MALES.					FEMALES.				
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
St. Alban's Higher Grade .....	...	44.5	113.0	46.5	21.1	...	...	...	...	...
Parish Higher Grade .....	6	...	...	...	...	...	...	...	...	...
Higher Elementary .....	...	...	...	...	...	...	...	...	...	...
Average for the Schools .....	...	44.5	113.0	46.5	21.1		...	...	...	...
SCHOOL.	7 TO 8 YEARS.									
	MALES.					FEMALES.				
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
St. Alban's Higher Grade .....	2	44.5	113.0	44.2	20.0	...	...	...	...	...
Parish Higher Grade .....	3	47.6	120.9	52.7	23.9	2	...	117.1	48.9	22.2
Higher Elementary .....	...	...	...	...	...	...	...	...	...	...
Average for the Schools .....		46.1	117.1	48.5	22.0	...	46.1	117.1	48.9	22.2

TABLE XXXIX.--Continued.  
Higher Grade Schools. Non-Half-Timers.

SCHOOL.	8 TO 9 YEARS.						
	MALES.			FEMALES.			
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Average height in inches	Average height in centi- metres
St. Alban's Higher Grade .....	1	47.2	119.9	53.5	24.3	...	...
Parish Higher Grade .....	3	46.8	118.9	55.7	25.2	6	125.0
Higher Elementary .....	...	...	...	...	...	...	...
Average for the Schools .....		47.0	119.4	54.6	24.7	49.2	125.0
	9 TO 10 YEARS.						
	MALES.			FEMALES.			
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Average height in inches	Average height in centi- metres
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Average height in inches	Average height in centi- metres
St. Alban's Higher Grade .....	6	50.9	129.3	56.5	25.6	...	...
Parish Higher Grade .....	9	51.1	129.8	62.0	28.1	4	122.7
Higher Elementary .....	...	...	...	...	...	...	...
Average for the Schools .....		51.0	129.5	59.3	26.9	48.3	122.7
	10 TO 11 YEARS.						
	MALES.			FEMALES.			
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Average height in inches	Average height in centi- metres
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Average height in inches	Average height in centi- metres
St. Alban's Higher Grade .....	4	49.9	126.7	59.4	26.9	...	...
Parish Higher Grade .....	10	51.9	131.8	62.1	28.1	15	129.8
Higher Elementary .....	...	...	...	...	...	...	...
Average for the Schools .....		50.9	129.3	60.8	27.5	51.1	129.8
						60.2	27.3

**TABLE XXXIX. -- Continued.**  
**Higher Grade Schools. Non-Half-Timers.**

SCHOOL.	11 TO 12 YEARS.									
	MALES.					FEMALES.				
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
St. Alban's Higher Grade .....	4	52.1	132.3	67.2	30.5	..	...	...	...	...
Parish Higher Grade .....	5	54.3	137.9	74.0	33.5	7	53.5	135.9	65.3	29.6
Higher Elementary .....	4	54.5	133.4	68.8	31.2	5	54.1	137.4	72.8	33.0
Average for the Schools .....		53.6	136.1	70.0	31.7		53.8	136.6	69.1	31.3
SCHOOL.	12 TO 13 YEARS.									
	MALES.					FEMALES.				
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
St. Alban's Higher Grade .....	8	55.9	142.0	76.5	34.7	..	...	...	...	...
Parish Higher Grade .....	12	56.5	143.5	77.8	35.3	12	55.5	141.0	75.8	34.4
Higher Elementary .....	36	55.4	140.7	75.7	34.3	23	57.5	146.0	80.8	36.6
Average for the Schools .....		55.9	142.0	76.7	34.8		56.5	143.5	78.3	35.5
SCHOOL.	13 TO 14 YEARS.									
	MALES.					FEMALES.				
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
St. Alban's Higher Grade .....	4	58.3	148.1	81.2	36.8	..	...	...	...	...
Parish Higher Grade .....	11	59.3	150.6	83.3	37.8	6	57.8	146.8	79.1	35.8
Higher Elementary .....	36	57.7	146.6	82.8	37.5	10	58.5	148.6	84.8	38.4
Average for the Schools .....		58.4	148.3	82.4	37.3		58.2	147.8	82.0	37.2

TABLE XXXIX.—Continued.

## Higher Grade Schools. Non-Half-Timers.

SCHOOL.	14 TO 15 YEARS.									
	MALES.					FEMALES.				
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
St. Alban's Higher Grade .....	...	...	...	...	...	...	...	...	...	...
Parish Higher Grade .....	...	...	...	...	...	3	60.4	153.4	107.2	48.6
Higher Elementary .....	14	60.1	152.6	95.3	43.2	15	60.4	153.4	98.2	44.5
Average for the Schools .....		60.1	152.6	95.3	43.2		60.4	153.4	102.7	46.6
SCHOOL.	15 TO 16 YEARS.									
	MALES.					FEMALES.				
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
St. Alban's Higher Grade .....	...	...	...	...	...	...	...	...	...	...
Parish Higher Grade .....	...	...	...	...	...	5	61.7	156.7	105.6	47.9
Higher Elementary .....	4	61.0	154.9	96.0	43.5	6	61.9	157.2	100.7	45.6
Average for the Schools .....		61.0	154.9	96.0	43.5		61.8	156.9	103.2	46.8

TABLE XL.—Higher Grade Schools.

Conditions, Defects, etc., found in the 320 Children Examined.

SCHOOL	Nutrition			Clothing			Footgear			Cleanliness			Teeth			Nose & Throat		Ext. Eye Dis.		Ext. Ear Dis.	
	Excellent	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Good	Defective	Good	Defective	Good	Defective
St. Alban's Higher Grade...	...	27	2	...	21	8	...	29	...	...	29	...	...	2	3	24	27	2	29	...	...
Parish Higher Grade .....	18	105	10	...	99	34	...	126	7	...	115	16	2	12	53	68	118	15	131	132	1
Higher Elementary .....	...	129	28	1	136	22	...	151	7	...	142	15	1	24	113	21	140	18	156	158	...
Totals.....	18	261	40	1	256	64	...	306	14	...	286	31	3	38	169	113	285	35	316	319	1

**TABLE XLI.—HIGHER GRADE SCHOOLS.****Conditions, etc., found amongst the 320 Children examined.**

	Excellent.	Good.	Medium.	Bad.
	Percentage	Percentage	Percentage	Percentage
Nutrition.....	5·6	81·5	12·5	0·3
Clothing .....	...	80·0	20·0	0·0
Footgear .....	...	95·6	4·3	0·0
Cleanliness .....	...	89·3	9·7	0·9
Teeth .....	...	11·8	52·8	35·3

	Good.	Defective.
	Percentage	Percentage
Nose and Throat .....	89·0	10·9
External Eye Defects .....	98·7	1·2
External Ear Defects (Otorrhœa) .....	99·6	0·3

Amongst the 320 children examined at the Higher Grade Schools the following defects were found:—

	per cent.
Slightly Enlarged Neck Glands, both sides.	25·0
Slightly Enlarged Neck Glands, one side...	21·2
Enlarged Tonsils .....	8·4
All Eye Defects .....	6·0
Skin Diseases .....	2·6
Adenoids .....	1·5
Anæmia .....	1·5
Circulatory Diseases .....	1·5
All Ear Defects .....	1·2
Greatly Enlarged Neck Glands, both sides..	1·2
Greatly Enlarged Neck Glands, one side ...	1·2
Dirty and Sore Heads .....	0·9
Speech Defects .....	0·6
Other Conditions of Nose and Throat .....	0·6
Developmental Defects .....	0·3
Nervous Diseases .....	0·3
Backward Children .....	0·3
Tonsils and Adenoids .....	0·3



**TABLE XLII.—Higher Grade Schools.**  
**Numbers and Age-periods of the Children examined for the Second time.**

SCHOOLS.	7-8		8-9		9-10		10-11		11-12		12-13		13-14		14-15		Total.		Total.
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
St. Alban's Higher Grade.....	5	...	1	...	2	..	4	...	8	...	4	...	2	...	1	...	27	...	27
Parish Higher Grade... ..	12	21	5	4	13	4	13	5	5	4	23	14	26	17	...	1	97	70	167
Higher Elementary .....	...	...	...	...	...	...	...	...	..	...	24	17	29	19	1	6	54	42	96
Totals.....	17	21	6	4	15	4	17	5	13	4	51	31	57	36	2	7	178	112	290

**TABLE XLIII.**  
**Higher Grade Schools. Children examined for the Second Time.**

SCHOOL.	7 TO 8 YEARS.									
	MALES.					FEMALES.				
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
St. Alban's Higher Grade .....	5	43.5	110.5	43.5	19.7	...	...	...	...	...
Parish Higher Grade .....	12	46.2	117.4	47.5	21.5	21	45.8	116.3	47.2	21.4
Higher Elementary .....	...	...	...	...	...	...	...	...	...	...
Average for the Schools .....		44.9	114.1	45.5	20.6		45.3	116.3	47.2	21.4
8 TO 9 YEARS.										
St. Alban's Higher Grade .....	MALES.					FEMALES.				
	1	46.0	116.8	45.5	20.6	...	...	...	...	...
	5	48.5	123.2	53.2	24.1	4	48.3	122.7	53.2	24.1
	...	...	...	...	...	...	...	...	...	...
		47.3	120.2	49.4	22.4		48.3	122.7	53.2	24.1
Average for the Schools .....										
9 TO 10 YEARS.										
St. Alban's Higher Grade .....	MALES.					FEMALES.				
	2	51.6	131.0	67.0	30.4	...	...	...	...	...
	13	50.2	127.5	59.5	27.0	4	51.8	131.6	65.3	29.6
	...	...	...	...	...	...	...	...	...	...
		50.9	129.3	63.3	28.7		51.8	131.6	65.3	29.6
Average for the Schools .....										

**TABLE XLIII.—Continued.  
Higher Grade Schools. Children examined for the Second Time.**

SCHOOL.	10 TO 11 YEARS.						
	MALES.			FEMALES.			
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
St. Alban's Higher Grade .....	4	52.2	132.6	63.9	...	53.5	...
Parish Higher Grade .....	13	51.7	131.3	61.8	...	...	33.8
Higher Elementary .....	...	...	...	...	...	...	...
Average for the Schools .....		51.9	131.8	62.9	...	53.5	30.8
SCHOOL.	11 TO 12 YEARS.						
	MALES.			FEMALES.			
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
St. Alban's Higher Grade .....	8	53.1	134.9	69.6	...	54.2	...
Parish Higher Grade .....	5	53.6	136.1	69.9	...	...	33.4
Higher Elementary .....	...	...	...	...	...	...	...
Average for the Schools .....		53.4	135.6	69.8	...	54.2	33.4
SCHOOL.	12 TO 13 YEARS.						
	MALES.			FEMALES.			
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes
St. Alban's Higher Grade .....	4	56.1	142.6	77.9	...	55.7	...
Parish Higher Grade .....	23	55.3	140.4	75.7	...	...	33.3
Higher Elementary .....	24	55.7	141.5	78.1	...	...	34.5
Average for the Schools .....		55.7	141.5	77.2	...	56.0	33.9

TABLE XLIII.—Continued.

## Higher Grade Schools. Children examined for the Second Time.

SCHOOL.	13 TO 14 YEARS.					
	MALES.			FEMALES.		
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Average height in inches
St. Alban's Higher Grade .....	2	55.0	139.7	73.5	33.3	...
Parish Higher Grade .....	26	56.6	143.7	79.0	35.8	58.8
Higher Elementary .....	29	56.4	143.2	78.8	35.7	57.7
Average for the Schools .....		56.0	142.2	77.1	34.9	58.3
14 TO 15 YEARS.						
SCHOOL.	MALES.			FEMALES.		
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Average height in inches
	Number exam- ined	Average height in inches	Average height in centi- metres	Average weight in pounds	Average weight in kilo- grammes	Average height in inches
St. Alban's Higher Grade .....	1	54.5	138.4	67.0	30.4	...
Parish Higher Grade .....	...	...	...	...	...	58.5
Higher Elementary .....	1	63.5	161.2	113.0	51.2	60.1
Average for the Schools .....		59.0	149.8	90.0	40.8	59.3
						98.1
						44.5

**TABLE XLIV.—Higher Grade Schools.**  
**Conditions, Defects, etc., found in the 290 Children examined for the Second time.**

SCHOOL	Nutrition.				Clothing.			Footgear.			Cleanliness.			Teeth			Nose & Thr't.		Ext. Eye Dis.		Ext. Ear Dis.	
	Excellent	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Bad	Good	Medium	Bad	Good	Defective	Good	Defective	Good	Defective
St. Alban's Higher Grade ...	5	20	2	..	16	11	..	26	1	..	24	3	..	2	13	12	24	3	25	2	26	1
Parish Higher Grade .....	17	129	21	..	117	50	..	162	5	..	149	16	2	6	64	97	150	17	162	5	164	3
Higher Elementary .....	..	75	21	..	78	18	..	94	2	..	88	8	..	18	68	10	78	18	91	5	93	3
Totals.....	22	224	44	..	211	79	..	282	8	..	261	27	2	26	145	119	252	38	278	12	283	7

**TABLE XLV.—HIGHER GRADE SCHOOLS.**

**Conditions, etc., found amongst the 290 Children examined for the second time.**

	Excellent.	Good.	Medium.	Bad.
	Percentage	Percentage	Percentage	Percentage
Nutrition.....	7·6	77·2	15·1	0·0
Clothing .....	...	72·7	27·2	0·0
Footgear .....	...	97·2	2·7	0·0
Cleanliness .....	...	90·0	9·3	0·6
Teeth .....	...	8·9	50·0	41·0
			Good.	Defective.
			Percentage	Percentage
Nose and Throat.....			86·9	13·1
External Eye Defects.....			95·8	4·1
External Ear Defects (Otorrhœa).....			97·6	2·4

Amongst the 290 children examined for the second time at the Higher Grade Schools, the following defects were found :—

	Per cent.
Slightly Enlarged Neck Glands, both sides.	26.9
Slightly Enlarged Neck Glands, one side...	20.7
Enlarged Tonsils .....	11.0
All Eye Defects .....	9.6
All Ear Defects .....	3.8
Anæmia .....	3.4
Circulatory Diseases .....	2.7
Speech Defects .....	1.7
Skin .....	1.4
Other Conditions of Nose and Throat .....	1.4
Greatly Enlarged Neck Glands, both sides.	1.0
Greatly Enlarged Neck Glands, one side...	0.7
Dirty and Sore Heads .....	0.7
Nervous Diseases .....	0.7
Tonsils and Adenoids .....	0.3
Adenoids .....	0.3
Respiratory Diseases .....	0.3
Backward Children .....	0.3
Developmental Defects .....	0.3



# E. EXAMINATION OF 506 SCHOOL CHILDREN REFERRED BY THE SCHOOL ATTENDANCE OFFICERS.

In addition to the above work, I have made a personal examination of 506 school children referred to me by the School Attendance Officers, as to their fitness or otherwise for School, and I have duly written certificates for the same.

Tables are appended showing an analysis of these cases as to numbers and age-periods.

Also the results of these examinations have been classified into the following systems:—

- 1.—Diseases of the Skin.
- 2.—Nervous Diseases.
- 3.—Diseases of the Circulatory System.
- 4.—Diseases of the Respiratory System.
- 5.—Tubercular Diseases.
- 6.—Infectious Diseases.
- 7.—Diseases of the Eye.
- 8.—Diseases of the Ear.
- 9.—Diseases of the Urinary System.
- 10.—Other Diseases or Conditions.

A statement has also been given showing the number of children referred by the School Attendance Officers, whom I have examined on more than one occasion since October, 1903.

It should be clearly understood that these 506 children were not examined in the systematic examination conducted at the Schools, but that they were selected specially by the School Attendance Officers from the absentees.

The percentage of cases of the various diseases calculated upon these 506 children, is, therefore, in no way representative of Blackburn school children considered as a whole.

TABLE XLVI.

**School Attendance Cases.**—Analysis of cases examined by Medical Officer from January 1st to December 31st, 1911.

No. of District.	1	2	3	4	5	6	7	8	9	Total
No. of Names entered in Book .....	49	77	103	42	100	50	61	44	54	580
Children Examined at the Health Office, and Certificates Granted .....	41	57	90	32	94	46	56	40	50	506
No. of Children certified as fit to attend School...	6	9	21	4	16	5	12	1	7	81
No. of Children certified as unfit to attend School	24	29	32	14	42	25	27	12	23	228
No. of Children certified as fit to attend School half the day .....	1	5	19	6	13	4	6	9	9	72
No. of Children to stay away from School for two weeks .....	2	3	4	3	7	...	2	3	2	26
No. of Children to stay away from School for four weeks .....	5	5	10	1	9	2	1	4	3	40
No. of Children with defective vision fit for Blind School .....	1	...	...	1	...	...	5	...	...	7
No. of Children with defective vision unfit for Blind School .....	...	1	1	...	...	1	...	...	...	3
No. of Children examined and certified as fit for Deaf and Dumb School..	...	...	...	2	1	1	...	3	3	10
No. of Children examined and certified as unfit for Deaf and Dumb School..	...	...	...	...	...	...	1	...	...	1
No. of Children certified as fit for Regent Street Special School .....	1	1	1	...	4	4	2	4	3	20
No. of Children certified as unfit for Regent Street Special School ...	1	3	1	1	1	4	...	3	...	14

TABLE XLVI.—Continued.

No. of Children certified as fit for Asylum .....	...	...	1	...	...	...	...	...	...	1
No. of Children certified as fit for an Industrial School .....	...	...	...	...	1	...	...	...	...	1
No. of Children certified as unfit for an Indus- trial School .....	...	...	...	...	...	...	...	1	...	1
No. of Children certified as fit for Street Trading	...	1	...	...	...	...	...	...	...	1
No. of Children sent to School on receipt of Medical Officer's notice, without being presented for examination .....	2	4	2	4	1	...	...	...	...	13
Certificates received from medical men after re- ceipt of Medical Officer's notice .....	...	3	2	...	3	...	...	...	1	9

**TABLE XLVII.**

**Age Periods of the 506 Children who had been referred for  
Medical Examination by the School Attendance Officers.**

Age Periods.	Males.	Females.	Total.
4- 5	...	2	2
5- 6	29	29	58
6- 7	25	51	76
7- 8	18	28	46
8- 9	19	22	41
9-10	10	26	36
10-11	14	26	40
11-12	15	21	36
12-13	15	39	54
13-14	13	31	44
Not Specified	36	37	73
TOTAL	194	312	506

## I.—DISEASES OF THE SKIN.

Tinea .....	21
Eczema .....	16
Dirty and Sore Heads .....	8
Sores .....	3
Scabies .....	2
Alopecia Areata .....	2
Furunculosis .....	1
Ulcer Heel .....	1
Impetigo .....	1
Aene .....	1
Favus .....	1
	—
	57

## II.—NERVOUS DISEASES.

Mental Deficiency and Backwardness ...	36
Chorea .....	14
Epilepsy .....	14
Acute Anterior Polio-Myelitis .....	2
Neurosis .....	2
Paresis Left Leg .....	1
Infantile Paralysis .....	1
Cephalalgia .....	1
	—
	71

## III.—CIRCULATORY SYSTEM.

Mitral Disease .....	39
Bradycardia .....	1
	—
	40

## IV.—RESPIRATORY SYSTEM.

Bronchitis .....	38
Convalescence following Pneumonia ...	1
	—
	39

## V.—TUBERCULAR DISEASES.

Doubtful Tuberculosis .....	8
Doubtful Phthisis .....	8
Tubercular Hip .....	4
Tubercular Ankle .....	2
Tubercular Spine .....	4
Tubercular Abscesses .....	3
Tubercular Adenitis .....	3
Tubercular Empyema .....	1
	—
	33

## VI.—INFECTIOUS DISEASES.

Whooping Cough .....	6
Chickenpox .....	1
Mumps .....	1
Convalescence following Typhoid Fever.	1
Convalescence following Diphtheria .....	1
	—
	10

## VII.—DISEASES OF THE EYE.

Defective Sight .....	10
Myopia .....	8
Corneal Ulcers .....	8
Blepharitis .....	8
Blind .....	7
Keratitis .....	4
Strabismus .....	3
Conjunctivitis .....	2
Photophobia .....	2
Ophthalmia .....	2
Opacity .....	1
Protruded Left Eye .....	1
Conjunctival Ecchymosis .....	1
Optic Neuritis .....	1
Astigmatism .....	1
	—
	59



## VIII.—DISEASES OF THE EAR.

Otorrhœa .....	11
Deafness .....	6
	—
	17

## IX.—DISEASES OF THE URINARY SYSTEM.

Nephritis .....	3
Calculus Vesicae .....	1
Phimosis .....	1
	—
	5

## X.—OTHER DISEASES AND CONDITIONS.

Anæmia .....	37
Debility .....	17
Malnutrition .....	14
Rachitis .....	10
Enlarged Tonsils .....	6
Deaf and Dumb .....	6
Unstable Age .....	5
Adenoids .....	4
Cervical Adenitis .....	4
Primary Menses .....	4
Gastric Catarrh .....	3
Rhinorrhœa .....	3
Rheumatism .....	2
Cleft Palate .....	2
Imbecility .....	2
Incessant Vomiting .....	2
Headache .....	1
Enlarged Neck Glands .....	1
Vermes .....	1
Enlarged Liver .....	1
Albuminuria .....	1
Empyema .....	1
Epistaxis .....	1
Lateral Scoliosis .....	1
Tonsils and Adenoids .....	1

Ankylosis Elbow .....	1
Periostitis .....	1
Talipes Varus .....	1
Hydrocephalus .....	1
Febricula .....	1
Nasal Catarrh .....	1
Tonsillitis .....	1
Spinal Curvature .....	1
Adenitis (Groin) .....	1
Incontinence of Bowels .....	1

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140

35 children were not suffering from any disease, and of course were certified as fit to attend School.

The following is a list of the referred cases examined medically on more than one occasion since October, 1903:—

Anæmia .....	18
Mitral Disease .....	17
Bronchitis .....	12
Chorea .....	7
Tinea .....	7
Epilepsy .....	6
Eczema .....	5
Malnutrition .....	5
Blind .....	4
Mental Deficiency .....	4
Debility .....	4
Rachitis .....	4
Otorrhœa .....	4
Doubtful Phthisis .....	3
Backward .....	3
Keratitis .....	3
Doubtful Tuberculosis .....	3
Tubercular Hip .....	3
Defective Sight .....	3
Corneal Ulcer .....	3
Deaf .....	2
Deaf and Dumb .....	2

Primary Menses .....	2
Neurosis .....	2
Unstable Age .....	1
Conjunctivitis .....	1
Tubercular Spine .....	1
Double Corneal Opacity .....	1
Convalescence following Typhoid Fever.	1
Empyema .....	1
Albuminuria .....	1
Nephritis .....	1
Enlarged Liver .....	1
Acute Anterior Polio-Myelitis .....	1
Alopecia Areata .....	1
Tonsils and Adenoids .....	1
Whooping Cough .....	1
Tubercular Adenitis .....	1
Talipes Varus .....	1
Blepharitis .....	1
Hydrocephalus .....	1
Calculus Vesicae .....	1
Phimosi s .....	1
Cephalalgia .....	1
Myopia .....	1
Alleged Vomiting .....	1
Jacksonian Epilepsy .....	1
Tubercular Caries .....	1
Not stated .....	11

## THE RELATIONSHIP BETWEEN THE SCHOOL ATTENDANCE DEPARTMENT AND THE SCHOOL MEDICAL SERVICE AT BLACKBURN.

The School Attendance Department in Blackburn consists of nine School Attendance Officers, together with a Superintendent School Attendance Officer and two clerks, who all act under the supervision of the Director of Education.

The salary of each of the nine School Attendance Officers is £104 per annum, and they are all full-time officials.

The salary of the Superintendent School Attendance Officer is £150 per annum, and he is also a full-time official.

## THE ORGANISATION OF THE SCHOOL ATTENDANCE SERVICE AT BLACKBURN IS AS FOLLOWS :—

There are 46 Schools in the Borough of Blackburn, and each of the nine School Attendance Officers has a certain number of Schools allotted to him.

A copy of each school register is kept in this Department, and one clerk goes to each School once a fortnight for the purpose of keeping these registers up to date with reference to the attendance of children, and the names and addresses of recently admitted children.

Also the teachers are supplied with Admission Forms, a copy of which I reproduce and which is marked "A," and the parents are required to fill up the form before the child is admitted to the School.

These Admission Forms are then sent by the teachers to the Local Education Office, or they are collected by the School Attendance Officer when he calls at the School. In addition to the above, the head teachers of the various Schools forward a return of attendances each month to the Director of Education, which also contains the names of the children recently admitted, and the names of those children who have left during that month.

These forms are then sent to the School Medical Officer, whose chief clerk checks them to see if each child admitted has had a form filled up with the necessary particulars entered

thereon before that child has been admitted to school. If no form has been obtained, the School Medical Officer communicates with the head teacher and requests such a form to be sent to him at once. The School Medical Officer then informs the School Attendance Department of this fact.

When the School Medical Officer has obtained the particulars which he desires from those forms, he returns the said forms to the Superintendent School Attendance Officer, who files them in his office.

The Director of Education also obtains a list of all children born in the Borough, and these are kept in such a way that when a child is five years of age it can be looked up, if it has not been entered on a schedule register before the age of five years.

Each School Attendance Officer visits the Schools allotted to him at least three times a week, and more frequently if necessary, and confers with the head teachers respecting absentees. He also peruses the register, and copies out the names of all those children who have been absent since his last visit. He visits the homes of absent children and obtains full particulars respecting the cause of absence. If any of these particulars obtained in this way relate to medical work such as sore throats, rashes, etc., such information is sent at once by the School Attendance Officer to the School Medical Officer. Similar information is also sent by the School Attendance Officer to the head teachers concerned.

The Superintendent School Attendance Officer calls at my office almost every day in reference to his work.

The School Attendance Officer, the School Nurses, the Assistant School Medical Officer, the teachers and myself are in close touch with each other in our work, and we are constantly giving information to each other regarding children who have been discovered to be suffering from some defect or condition.

The teachers and School Attendance Officers are encouraged to send any case to me for examination, and this is taken full

advantage of by these officials. Full particulars, including instructions given to the parents, etc., are afterwards sent to the School Attendance Officer and teacher with reference to such children for examination.

All cases excluded from the School are notified to the head teachers and to the School Attendance Officers by me, together with instructions as to what action they should take with advantage to the children concerned.

The School Medical Officer and the Medical Officer of Health are the same official in Blackburn.

THE METHOD ADOPTED IN CONNECTION WITH NOTIFIABLE DISEASES IS AS FOLLOWS:—

The School Attendance Officers are provided with books (a specimen leaf of which I reproduce and is marked "B"), and stamped addressed envelopes. These officers are instructed to forward to me immediately any disease or condition concerning which they have the least doubt, and which they may have come across in their work.

The School Attendance Officer also has a counterfoil of this information, and he informs the teacher that he has sent the same to me.

These children are visited by members of my staff or by myself immediately, and information is then sent to the School Attendance Officer as to the result of such visits.

The School Medical Officer also supplies head teachers with these books and with stamped addressed envelopes, together with instructions similar to those given to the School Attendance Officers.

All Infectious Diseases notified to the Medical Officer of Health under the Infectious Diseases Notification Act of 1889, are reported by me in my combined capacity of School Medical Officer and Medical Officer of Health, to the Local Education Department and also to the head teacher of the Schools concerned, giving particulars as to the time the children should stay away from school. Such information is sent on printed forms, copies of which are reproduced and marked "C."



The Superintendent School Attendance Officer is constantly calling to see me with regard to suspicious cases of Infectious Diseases, which are then visited immediately. He also obtains any information he requires from the slips filled up by the Sanitary Inspector if he should require it. Copies of these slips are reproduced and marked "D."

Exactly the same procedure is adopted in connection with the non-notifiable diseases, but here the information in the first instance comes to me from the School Attendance Officers and the teachers.

A card containing the following instructions marked "E" is in the hands of each School Attendance Officer and each head teacher.

The Superintendent School Attendance Officer has free access to all the registers, etc., kept in the Health Office, relating to all diseases concerning which the Local Education Authority may require information.

The School Attendance Officers and the teachers inform me of any cases of doubtful Tinea, Scabies, etc.

These are at once visited, and, if they are in School, are examined by the Assistant School Medical Officer or myself, and specimens of hair are taken in cases of Tinea, and the child or children excluded until the specimen has been examined, and after that for a period if necessary.

The teachers and School Attendance Officers are informed if such children have been excluded from School, and instructions are sent to the School Attendance Officer and Teachers that such children should not be re-admitted to School until they are free from infection.

The School Nurses visit the houses to ascertain what treatment is being given, and when they are of opinion that the child is fit for School again, the School Attendance Officers are requested to send them to me on any Tuesday morning, so that I may certify them as fit to attend School, if that is my opinion.

The School Attendance Officers are requested to send to me any cases of blind, deaf, defective or epileptic children, or children suffering from chorea, paralysis, tuberculosis or malnutrition, or with neglected or delicate health, to be examined on any Tuesday morning. This morning is specially set apart for these cases. This portion of the work is undertaken by the School Medical Officer personally.

These children are selected by the School Attendance Officers from the absentees visited by them, and a notice is forwarded to the parents concerned requesting them to bring their children to the Health Office to be examined as to their fitness or otherwise to attend School.

A copy of this notice requiring the attendance of the parent or guardian with the child is appended herewith, numbered "F".

Each School Attendance Officer has a special medical certificate book, and he fills up one side of the book with the particulars which he has obtained respecting the child to be examined for my information. These particulars refer to name, age, school, standard, etc.

The books are then sent to the School Medical Officer, who peruses these particulars, examines each child sent, separately, and fills up a certificate for the same. The particulars of the School Attendance Officer and the Certificate School Medical Officer respectively are on the same page alongside one another.

I reproduce herewith specimen copies of certificates filled up in various ways, as follows, and marked "G," 1, 2, 3, etc.

- (1) Children not suffering from any disease or condition and fit for School (G1).
- (2) Unfit for School until further examination (G2).
- (3) Not to return to School for 4 weeks (G3).
- (4) Not to return to School for 2 weeks (G4).
- (5) To attend the School half the day, *i.e.*, morning or afternoon session only (G5).

- (6) As to fitness for Regent Street Special School for Defective Children (G6).
- (7) As to fitness for Blind School (G7).
- (8) As to fitness for Deaf School (G8).
- (9) As to fitness for street trading (G9).
- (10) As to fitness for Industrial School (G10).
- (11) Unfit for School and to be crossed off Register. (There are very few cases of this description, but when such cases do occur they are reported specially to the Board of Education, Whitehall). (G11).
- (12) Cases suitable for Playground Class (G12).
- (13) Cases of Malnutrition. If these cases are poor, they are sent to the nearest feeding centre by order of the School Medical Officer through the School Attendance Officer (G13).
- (14) Cases requiring spectacles. We have a special list of such cases, and those who are too poor to buy spectacles are helped from a private fund in the hands of the Director of Education (G14).
- (15) Cases recommended for treatment at Infirmary (G15).
- (16) Cases needing immediate medical treatment (G16).

When the certificates have been duly filled, they are returned immediately to the School Attendance Officers, who take full particulars from these medical certificates, and act accordingly.

The School Attendance Officers render great assistance in seeing that the recommendations of the School Medical Officer are carried out in these cases, and report to the School Medical Officer when necessary, if such recommendations have not been carried out.

If the parents of the children concerned appear to be neglectful, and do not appear to be giving the condition or disease the necessary attention, they are sent to the School Medical Officer again for examination, and he again reports

upon the progress made or otherwise, as the case may be. In many cases, at this juncture, the School Nurses visit the homes of the children concerned and interview the parents.

When the parents of the children do not take the necessary steps to get their children back at School after a certain time, the School Attendance Officers have these parents brought before a special committee appointed for the purpose of showing cause why the children have not attended School. If the parents are found to be neglectful or guilty of not doing what is reasonably necessary in such cases, they are brought before the Magistrates in the usual way.

On many occasions they are referred for further examination by the School Medical Officer, with instructions from the above-mentioned special committee for the School Attendance Officer to act on this certificate of the School Medical Officer.

Sometimes this entails a visit by the School Medical Officer to the home of the child in question, which has been brought to light through the action of the School Attendance Officer, in order that the School Medical Officer may have the fullest details possible.

The School Attendance Officer refers all cases unfit for School to the School Medical Officer, and he fills up a certificate mentioned in foregoing section D. A copy of the certificate is given marked G11 before it is crossed off the register.

Finally, I believe that the close, continual co-operation between the School Attendance Department and the School Medical Service, in Blackburn, is of the highest value in producing successful results in remedying many conditions and defects in connection with the Medical Inspection of School Children in the Borough.

"A"

# COUNTY BOROUGH OF BLACKBURN.

## EDUCATION COMMITTEE.

*Application for admission to.....School.*

Name of Child ..... Address .....

Place of Birth ..... Street .....

Date of Birth : day ..... month ..... year .....

(A Certificate of Birth should be sent to the School with this Form in all Applications for Admission to Infants' Schools.  
The Certificate will be returned to the parent on the same day).

Name of Parent or Guardian ..... Occupation of Parent .....

School now left (if any) .....

Cause of leaving (if any) .....

### PERSONAL HISTORY : Previous illnesses of Child (before admission)

Measles ..... Whooping Cough ..... Chickenpox .....

Scarlet Fever ..... Diphtheria ..... Other Illnesses .....

Signature of Parent or Guardian .....

Date of Admission .....

**NOTICE TO PARENTS.** Applications for permission to transfer from one School to another will only be approved if a satisfactory reason be given. Change of School should take place on Monday Mornings only.

NOTIFICATION FORM FOR  
MEASLES, WHOOPING COUGH, MUMPS, CHICKENPOX, &c.

*I have reason to believe that the Children named below  
are suffering from.....*

NAME.	ADDRESS.

*Signed.....*

.....School.

.....19

C1

BLACKBURN CORPORATION.

HEALTH DEPARTMENT.

53, Northgate, Blackburn,.....191

*I beg to inform you that a Child named.....  
.....residing at.....Street,  
is suffering from Scarlet Fever, and therefore children from  
this House should not be permitted to attend School until a  
notice is received from me that the house is free from infection.*

*I am,*

*Your obedient Servant,*

ALFRED GREENWOOD,

*Medical Officer of Health.*

*To the Head M.....*

*of the.....School*



C 2

## BLACKBURN CORPORATION.

## HEALTH DEPARTMENT.

53, Northgate, Blackburn,.....191

*I beg to inform you that the House.....Street,  
 occupied by.....  
 has been disinfected, and the children may be again permitted  
 to attend School, with the exception of the patient, who must  
 not return for another 14 days.*

*I am,**Your obedient Servant,*

ALFRED GREENWOOD,

*Medical Officer of Health.**To the Head M.....**of the.....School*

C 3

## BLACKBURN CORPORATION.

## HEALTH DEPARTMENT.

53, Northgate, Blackburn,.....191

*I beg to inform you that.....Street,  
 .....  
 has been removed to the hospital. The children may return to  
 School in 14 days.*

*I am,**Your obedient Servant,*

ALFRED GREENWOOD,

*Medical Officer of Health.**To the Head M.....**of the.....School*

C 4

*Public Health Office,**Blackburn,*

.....191

*Dear Sir,*

*I beg to inform you of the presence of Scarlet Fever at the house specified below, and to advise you that it will not be safe for children from this house to attend Sunday School for Six Weeks from this date.*

*I am,**Your obedient Servant,***ALFRED GREENWOOD,***Medical Officer of Health.*

NAME.	ADDRESS.

*To the SUPERINTENDENT**of.....Sunday School.*

PUBLIC HEALTH OFFICE,  
53, NORTHGATE, BLACKBURN,

.....191

DEAR SIR,

The under-mentioned Houses have now been disinfected.

Yours faithfully,

ALFRED GREENWOOD.

NAME.	ADDRESS

*To the*

PUBLIC HEALTH OFFICE,  
53, NORTHGATE, BLACKBURN,

.....191

DEAR SIR,

Cases of Infectious Disease have this day been reported to me at the under-mentioned address.

Yours faithfully,

ALFRED GREENWOOD.

NAME.	ADDRESS.

*To the*

## D 1

## SCARLET FEVER.

## DISTRICT :

*Name*..... *Age*.....  
..... *Family* ..... *Lodgers*  
*Address* .....  
*Medical Attendant*..... *Called in*..... *Notified*.....  
*How Isolated*.....  
*If overcrowding state number in each room*.....  
.....  
*Nursed by*.....  
*Other duties of Nurse*.....  
*Milk Supply*.....  
*Any case of Sore Throat in house within Six Weeks*.....  
      "      "      "      *the immediate neighbourhood*.....  
*Any Children peeling in house*.....  
*Recent visits to other houses*.....  
*Visitors from other houses*.....  
*Washing sent out*..... *where to*.....  
*Washing taken in*..... *where from*.....  
*Have any Clothes, Books, &c., been brought to the house within*  
*14 days of illness, or has patient been away: Where*.....  
.....  
*Any Sickness at Laundress or Clothier*.....  
*Is hospital agreed to*.....  
*If not, instructions given for improving Isolation*.....  
.....  
BUSINESS CARRIED ON IN HOUSE.....  
*Probable source of Infection with reasons*.....  
.....  
.....



D 2

## ENTERIC FEVER.

DISTRICT :

*Name*..... *Age*.....  
*Address*.....  
*Medical Attendant*.....*First called in*.....  
*Notified*.....  
*Milk Supply*.....  
*Water Supply*.....  
*Butcher*..... *Grocer*..... *Baker*.....  
*Business carried on in house*.....  
*How Isolated*.....  
*Separate Attendant—Other Duties of Attendant*.....  
*Previous Illness of Patient*.....  
*Recent cases of Illness in house*.....  
*Recent cases of Illness amongst neighbours or friends*.....  
*Cases of Enteric Fever in the same house or vicinity with dates*  
.....  
*How long resident in house*.....  
*Recent visits to other houses*.....  
*Recent Visitors from other houses*.....  
*Washing sent out*.....*where to*.....  
*Washing taken in*.....*where from*.....  
*Have any Clothes, Books, &c., been brought to the house within*  
*14 days of illness, or has patient been away: Where*.....  
.....  
*Probable source of Infection with reasons*.....  
*Instructions given for improving Isolation*.....  
*Is removal to hospital agreed to*.....  
*Any Nuisance in neighbourhood which might be a possible*  
*cause*.....





## D 3

## DIPHTHERIA AND MEMBRANOUS CROUP.

## D. STRICT :

*Name*..... *Age*.....  
..... *Family* ..... *Lodger*  
*Address*.....  
*Medical Attendant*..... *Called in*..... *Notified*.....  
*Water Supply*.....  
*Milk Supply*.....  
*Butcher*..... *Grocer*..... *Baker*.....  
*Business carried on in house*.....  
*How Isolated*.....  
*Separate Attendant—Other Duties of Attendant*.....  
*Previous Illness of Patient*.....  
*Cases of Sore Throat in house*.....  
*Cases of Sore Throat amongst neighbours*.....  
*Cases of Diphtheria in neighbourhood*.....  
.....  
*Cases of Diphtheria at same school within six weeks*.....  
.....  
*Recent visits to other houses*.....  
*Visitors from other houses*.....  
*How long resident in house*.....  
*Washing sent out*..... *where to*.....  
*Washing taken in*..... *where from*.....  
*Have any Clothes, Books, &c., been brought to the house within*  
*14 days of illness, or has patient been away: Where*.....  
.....  
*Instructions given for improving Isolation*.....  
*Is removal to hospital agreed to*.....  
*Animals kept*.....  
*Any illness amongst them*.....  
*Probable source of Infection with reasons*.....  
*Has Antitoxin been injected*.....



## COUNTY BOROUGH OF BLACKBURN.

INFORMATION FOR SCHOOL TEACHERS WHICH WILL ASSIST  
IN PREVENTING THE SPREAD OF INFECTIOUS DISEASES.

---

VENTILATION.

- (1.) The means of ventilation which are available should be used.
- (2.) Windows should be opened as much as possible. An intelligent teacher will soon discover to what extent the windows can be opened without draught. There is often a smaller sense of draught from widely-opened windows than from slightly-opened windows, especially if the outside air is not too cold.
- (3.) If a strong wind is blowing, and windows are placed on opposite sides of the room, it is preferable to open the windows on the leeward side, *i.e.*, the side opposite to which the wind is blowing. If the wind is not strong, one or more windows may in addition be opened at the top on the windward side, *i.e.*, the side on which the wind is blowing. In warm weather, with little or no wind, the conditions are unfavourable to ventilation, and accordingly all ventilators and windows should be freely opened. In cold, and especially in windy weather the conditions are unfavourable to ventilation, and the opening of windows may therefore be moderated.
- (4.) All air gratings, Tobin's tubes, Sherringham valves, etc., must be kept free from dust, paper, and other articles, and must not be covered by maps, books, flower-pots, etc., which may hinder the free inflow of air.
- (5.) Every door, window, and other ventilation opening must be opened widely during playtime.
- (6.) All assistant teachers must carry out these instructions.

## INFECTIOUS DISEASES.

- (1.) If any child is found to be suffering from any of the following symptoms, he or she should be sent home at once, and reported without delay to the School Medical Officer:—

- A. SORE THROAT.—The child may be suffering from *Diphtheria*, or commencing *Scarlet Fever*.
- B. SEVERE COLD, with sneezing, running from the eyes and nose. The child may be suffering from the first stage of *Measles*. These symptoms should be looked for, particularly when *Measles* is prevalent.
- C. PROLONGED FITS OF COUGHING, especially if ending in expectoration of mucus, or, as sometimes is the case, in vomiting. The child may be suffering from *Whooping Cough*.
- D. PEELING OF SKIN on hands, or neck, or other parts of the body. Such peeling frequently occurs in the later stages of *Scarlet Fever*.
- E. FEVERISHNESS.—Every teacher should know how to take the temperature of a child. If the temperature in the armpit is above 99 deg. F., the child should be regarded as feverish.
- F. GENERAL RASH.—Rashes are generally indicative of infectious diseases, especially of *Scarlet Fever*, *Measles*, *German Measles*, and *Small-pox*.

- (2.) Every child whose nose, eyes, or ears are constantly discharging, or who has *Ringworm*, *Scabies*, or any other skin disease, should be reported to the School Medical Officer, and should not be re-admitted to School until certified by the Medical Attendant to be cured or undergoing such treatment as will prevent the disease spreading to others.

- (3.) Paper should, when possible, be substituted for slates.  
When slates are used each pupil should have his own, and they should also be washed with disinfectants frequently.
- (4.) Every teacher by co-operating in the above manner will undoubtedly benefit both sick and healthy children, and also do much to prevent the necessity for school closure.
- (5.) The School Medical Officer is ready at all times to give advice to teachers regarding the above.

## EXCLUSION FROM SCHOOL.

## PERIOD OF EXCLUSION FOR PATIENTS.

- Measles ..... For at least four weeks.
- Mumps ..... For three weeks.
- Chicken Pox ..... For three weeks, or until every scab has  
fallen off the scalp or body.
- Whooping Cough ... For at least six weeks, or for as long a  
period as the cough continues.

PERIOD OF EXCLUSION FOR OTHER CHILDREN LIVING IN THE  
HOUSE.

- Measles ..... When Measles break out in a household,  
those children of the same household  
who attend an Infant Department, and  
also those older children of the same  
household who have not had Measles,  
should be excluded from School for  
three weeks from the date of onset of the  
illness of the last patient with Measles  
in the house.
- Mumps and Chicken  
Pox ..... When either of these diseases breaks out  
in a household, those children of either  
household who attend an Infant Depart-  
ment should be excluded from School  
for three weeks.
- Whooping Cough ... When this disease breaks out in a house-  
hold, those children of the same house-  
hold who attend an Infant Department  
should be excluded from School for  
three weeks.



COUNTY BOROUGH OF BLACKBURN.

## EDUCATION COMMITTEE.

EDUCATION OFFICES,

LIBRARY STREET,

.....191..

*No. of Book.....*

*No. of Certificate.....*

Sir or Madam,

I am directed to ask you to take your child  
 .....to DR. GREENWOOD, at the  
 HEALTH OFFICE, NORTHGATE, BLACKBURN, on TUESDAY NEXT,  
 at NINE o'clock in the morning for examination as to h.....  
 fitness for attendance at school.

It is very desirable that children shall be accompanied  
 by a parent or guardian.

Yours faithfully,

A. H. WHIPPLE.

*Please take this notice with you.*

## G 1

EDUCATION DEPARTMENT.  
(ELEMENTARY).

## SCHOOL MEDICAL OFFICER'S REPORT.

I examined.....A.B.....19.....  
at.....The Health Office.....  
on.....19.....  
He is.....  
.....  
apparently in good health.  
Report.....Fit to attend School...  
.....  
.....  
.....  
.....  
.....

*Medical Officer.*

## G 2

EDUCATION DEPARTMENT.  
(ELEMENTARY).

## SCHOOL MEDICAL OFFICER'S REPORT

I examined.....	C.D.....	19.....
at.....	The Health Office.....	
on.....		19.....
He is suffering from.....	Doubtful Phthisis.....	
Report.....		
Sputum tin given to mother, with instructions not to attend		
School for the present. To be examined by me again.....		
		<i>Medical Officer.</i>

G 3

EDUCATION DEPARTMENT.  
(ELEMENTARY).

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SCHOOL MEDICAL OFFICER'S REPORT.

.....19.....  
 I examined.....E.F.....  
 at.....  
 on.....19.....  
 She is suffering from.....  
 .....Anæmia.....  
 Report.....  
 Not Fit for School at present. To live in the fresh air for a  
 month.  
 .....  
 .....*Medical Officer.*

G 4

EDUCATION DEPARTMENT.  
(ELEMENTARY).

---

SCHOOL MEDICAL OFFICER'S REPORT.

.....19.....  
 I examined.....G.H.....  
 at.....  
 on.....19.....  
 He is suffering from.....  
 .....Slight Bronchitis.....  
 Report.....  
 ..... No School for a fortnight. ....  
 .....  
 .....  
 .....*Medical Officer.*

EDUCATION DEPARTMENT.  
(ELEMENTARY).

---

SCHOOL MEDICAL OFFICER'S REPORT.

I examined.....	L.J.....	19.....
at.....		
on.....		19.....
He is suffering from.....	Malnutrition.....	
Report.....		
.....To attend School in the afternoons only.....		
.....		
.....		<i>Medical Officer.</i>

EDUCATION DEPARTMENT.  
(ELEMENTARY).

---

SCHOOL MEDICAL OFFICER'S REPORT.

I examined.....	K.L.....	19.....
at.....		
on.....		19.....
He is suffering from.....	Extreme Backwardness.....	
Report.....		
.....Fit to attend Regent Street Special School.....		
.....		
.....		<i>Medical Officer.</i>

G 7

EDUCATION DEPARTMENT.  
(ELEMENTARY).

## SCHOOL MEDICAL OFFICER'S REPORT.

I examined.....M.N.<sub>a</sub>.....19.....  
at.....  
on.....19.....  
She is suffering from.....  
.....Double Corneal Opacity.....  
Report.....  
.....Fit for a Blind School.....  
.....  

.....Medical Officer.

G 8

EDUCATION DEPARTMENT.  
(ELEMENTARY).

## SCHOOL MEDICAL OFFICER'S REPORT.

I examined.....O.P.....19.....  
at.....  
on.....19.....  
He is suffering from.....Deafness.....  
Report.....  
.....Fit for a Deaf School.....  
.....  
.....  
.....Medical Officer.

G 9

EDUCATION DEPARTMENT.  
(ELEMENTARY).

## SCHOOL MEDICAL OFFICER'S REPORT.

I examined.....Q.R.....19  
at.....  
on.....19  
He is suffering from.....Mitral Disease.....  
Report.....  
.....Not fit for Street Trading.....  
.....  
.....  
.....Medical Officer.

G 10

EDUCATION DEPARTMENT.  
(ELEMENTARY).

## SCHOOL MEDICAL OFFICER'S REPORT.

I examined.....S.T.....19.  
at.....  
on.....19.  
He is.....  
apparently in good health.  
Report.....  
.....Fit for admission to an Industrial School.....  
.....  
.....  
.....Medical Officer.

EDUCATION DEPARTMENT.  
(ELEMENTARY).

---

SCHOOL MEDICAL OFFICER'S REPORT.

.....19.....  
 I examined.....U.V.....  
 at.....  
 on.....19.....  
 He is suffering from.....  
 .....Generalised Tuberculosis.....  
 Report.....  
 Will never be fit for School again. May be crossed off the  
 Register. Please report to the Board of Education.  
 .....*Medical Officer.*

EDUCATION DEPARTMENT.  
(ELEMENTARY).

---

SCHOOL MEDICAL OFFICER'S REPORT.

.....19.....  
 I examined.....W.A.....  
 at.....  
 on.....19.....  
 He is suffering from.....  
 .....Anæmia.....  
 Report.....  
 .....Suitable for a Playground Class.....  
 .....  
 .....  
 .....*Medical Officer.*



EDUCATION DEPARTMENT.  
(ELEMENTARY).

## SCHOOL MEDICAL OFFICER'S REPORT.

I examined.....W.B.....19.  
at.....  
on.....19.  
He is suffering from.....Malnutrition.....  
Report.....  
Should go to the nearest Feeding Centre daily for dinners.  
.....  
.....  
.....Medical Officer.

EDUCATION DEPARTMENT.  
(ELEMENTARY).

## SCHOOL MEDICAL OFFICER'S REPORT.

I examined.....W.C.....19.  
at.....  
on.....19.  
She is suffering from.....Myopia.....  
Report.....  
.....Should see Eye Specialist. May need spectacles.....  
.....  
.....  
.....Medical Officer.

G 15

EDUCATION DEPARTMENT.  
(ELEMENTARY).

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SCHOOL MEDICAL OFFICER'S REPORT.

.....19.....  
 I examined.....W.D.....  
 at.....  
 on.....19.....  
 She is suffering from.....  
 .....Post Nasal Adenoids.....  
 Report.....  
 I have advised the mother to take this girl to the Infirmary  
 for operation.  
 .....*Medical Officer.*

G 16

EDUCATION DEPARTMENT.  
(ELEMENTARY).

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SCHOOL MEDICAL OFFICER'S REPORT.

.....19.....  
 I examined.....W.E.....  
 at.....  
 on.....19.....  
 He is suffering from.....  
 .....Acute Bronchitis.....  
 Report.....  
 This child needs immediate medical attention, and should be  
 seen by the family doctor at his own home to-day.  
 .....*Medical Officer.*

In October, 1911, arrangements were made between the School Attendance Department and the School Medical Department that all children who absented themselves from School should be notified to the School Medical Officer each day.

The particulars are obtained by the School Attendance Officers and then forwarded to the School Medical Officer, who prepared a special register for this purpose; and when the lists have been perused by the School Medical Officer, the particulars contained on the said lists are entered in the said register for future reference. After they have been entered in the register, and a special reference number allotted to each child, the lists are returned to the School Attendance Department for them to fill in the date of return or re-admission.

The following is a copy of the List sent by the School Attendance Officers to the School Medical Officer:—

# BLACKBURN EDUCATION COMMITTEE.

Notification to Medical Officer of Children absent from School on account of Sickness, or Alleged Sickness, other than cases notifiable by the Medical Officer.

NAME.	ADDRESS.	SCHOOL.	Disease, Doctor's Name (if any), or Date and Period of M.C.	Date when Absence Commenced.	Date of Child's Return to School.

Signed.....S.A. Officer

.....191.....

The Register, which is called the "School Diseases Register," contains the following headings:—

1. Number.
2. Name of Scholar.
3. Address.
4. Age.
5. School.
6. Cause of Exclusion or Absence.
7. Date of Exclusion.
8. Date of Re-admission.
9. Authority for Exclusion.
10. Date of Certificate under Art. 53 (b).

It was found advisable to deal with Infectious Diseases separately. Accordingly, a special register was prepared and named the "School Infectious Diseases Register." In this Register are entered all patients and their contacts who are to be excluded from School on account of any Infectious Disease.

This Register contains the following particulars relating to Measles, Whooping Cough, Chickenpox, Scarlet Fever, Diphtheria, and Mumps:—

- Number.
- Name.
- Address.
- School.
- Age.
- Date of Exclusion.
- Date of Re-admission.

Provision has also been made in this Register to deal with other Infectious Diseases when occasion arises.

All cases of Infectious Diseases reported from the Schools are visited by the Lady Health Visitors.

All cases of Scarlet Fever, Diphtheria, Typhoid Fever, etc., are visited by the Male Sanitary Inspectors.

Particulars of all cases of Infectious Diseases are obtained in this way, and all the cases are reported to the School Attendance Department, together with all contacts to be excluded from School, on the following form:—

Dear Sir,

The following children have been notified to me as suffering from

I shall be glad if you will kindly inform me when they return to School.

Yours faithfully,

ALFRED GREENWOOD,

School Medical Officer.

NAME.	ADDRESS.	SCHOOL.	Date Returned to School.

It will be seen, therefore, that all absentees are known, both to the School Attendance Department and the School Medical Department, and any special cases requiring the attention of the School Medical Officer, or the School Attendance Department, are starred for that purpose.

All cases specially excluded by the School Medical Officer during the systematic medical inspection of school children are notified to the School Attendance Department on the following form :—

### EXCLUSIONS.

PUBLIC HEALTH OFFICE,

BLACKBURN,.....191

Dear Sir,

The following child has been excluded from School on  
account of suffering from.....

.....may return to School on.....

I shall be glad if you will kindly inform me when ...he  
returns to School.

Yours faithfully,

ALFRED GREENWOOD,

School Medical Officer.

.....

.....School.

This child returned to School on.....



## F. EXAMINATION OF SCHOLARSHIP HOLDERS.

During the year 1911, I examined 21 persons, 5 males and 16 females, who had gained Scholarships during the year, as follows:—

Governors' Scholarships to Girls High School .....	8
Bursary Scholarships .....	3
Leyland Scholarships .....	3
Robert Carr Radcliffe Scholarship .....	1
Henry Harrison Scholarship .....	1
Eli Heyworth Scholarship .....	1
Daniel Thwaites' Scholarship .....	1
Peel Foundation Scholarship .....	1
Teaching Scholarships .....	2

I found that they were all in good health and able to undertake the work in connection with the above-named Scholarships.

Where necessary, I gave advice respecting removal of carious teeth, correct breathing, exercise, etc.

## FURTHER OBSERVATIONS ON THE MEDICAL INSPECTION OF BLACKBURN SCHOOL CHILDREN.

It is not possible to refer as fully as one would wish in this Report to all the points which arise as a result of Medical Inspection, but the following have been selected for special mention.

Dr. Linton has written the three paragraphs on Malnutrition, Glandular Enlargement, and Defective Vision, and I am indebted to him for this contribution to my Report.

### MALNUTRITION.

It is necessary to draw attention once more to the prevalence of defective nutrition amongst school children\*. It is the most urgent of the problems confronting Education Authorities, for this reason: Defective nutrition, to a far greater extent than any other single cause, and probably more than all other causes combined, renders children incapable of education. In a growing child the demands of muscle and bone must be satisfied before those of nervous tissue, and consequently when there is deficiency, or what comes to the same thing, unsuitability of food, or inability to assimilate it, the nervous system is the first to suffer; the brain is starved and anæmic, and the extra strain involved in school work can have only a harmful, and in some cases a disastrous result.

A glance at the accompanying table will show the extent of the evil. The children inspected during the year have again been placed in four classes with respect to their state of nutrition, and the definition of those four classes, given in last year's Report, may conveniently be repeated here.

Class I. includes those children with whose nutrition no fault can be found. Their muscles are firm, skin healthy in tone and colour, hair not dry, mucous membranes red, and they have not too much fat; lastly, they are not undersized, and are not noticeably below the weight normal to their height.

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\* "Defective nutrition stands in the forefront as the most important of all physical defects from which school children suffer."

Annual Report for 1910 of the Chief Medical Officer of the Board of Education.

Class II. is made up of all those children who show no marked signs of malnutrition, and yet are not up to the standard of Class I. A child in this Class may be undersized, or may weigh considerably less than normal for his height, provided that he seems in other respects well nourished; or he may be slightly pale and overgrown, and yet not so definitely below the normal as to fall into Class III.

In Class III. are included children who are definitely anæmic, or slightly anæmic, and at the same time undersized or thin, or, without being anæmic, are undersized and also show such signs of malnutrition as dry skin, dry and brittle hair, lack of mental alertness, etc.; and, lastly, fat and flabby children.

Class IV. comprises children showing all the signs of malnutrition, including a marked degree of anæmia and lack of flesh.

### NUTRITION.

	Number Examined.	I	II.	III.	IV.
New Admissions .....	6968	381 (5·5)	5486 (79)	1673 (15)	28 (0·5)
Second Examinations...	1584	85 (5·5)	1217 (77)	275 (17)	7 (0·5)
Leavers .....	1776	140 (8)	1355 (76·5)	271 (15)	10 (0·5)
Total .....	10328	606 (5·8)	8058 (78·0)	1619 (15·7)	45 (0·5)
*Higher Grad. Scholars	610	40 (6·5)	485 (79·5)	84 (13·8)	1 (0·16)

(The figures in parenthesis are percentages.)

\*Excluding the Higher Elementary School.

The Table speaks for itself, but one may draw attention to three points:—

- (1) The smallness of the numbers in Class I.
- (2) The ominously high numbers in Class III. One may safely say that practically all these children (roughly one out

of every six) are suffering from poor feeding and defective home conditions generally.

(3) The shrinkage of Class IV. in the Higher Grade Schools.

Decay of the teeth is a very potent form of defective nutrition, and the really terrible extent to which it is present may be seen from the following Table. The classification is

Good—No decayed teeth.

Medium—Fewer than four decayed teeth.

Bad—Four or more decayed teeth.

### TEETH.

	Number Examined.	Good.	Medium.	Bad.
New Admissions .....	6968	1056 (15)	2707 (39)	3205 (46)
Second Examinations .....	1584	124 (8)	533 (34)	927 (58)
Leavers .....	1776	186 (10·5)	873 (49)	717 (40·5)
Total .....	10328	1366 (13)	4113 (40)	4849 (47)
Higher Grade Scholars.....	610	64 (10·5)	314 (51·5)	232 (38)

(The figures in parenthesis are percentages.)

One may draw attention to two points in the foregoing Table:—

(1) The smallness of the numbers under the heading “Good,” *i.e.*, those who have no decayed teeth at all.

(2) The distinctly better figures in the case of the Higher Grade Scholars as compared with those for the children attending the ordinary elementary schools. The smallness of the number under the heading “Good” is only apparent and is due to the fact that there are very few quite young children in the Higher Grade Schools. It is at the ages 3—5 that one finds children with perfect sets of teeth.

It is obvious that one of the first things to do in attacking this problem of malnutrition is to provide dental treatment for school children. They get practically none at all at present. Among the twenty thousand children I have examined during the last three years, I have not seen a dozen with fillings in their mouth; while the number of children who suffer without complaining from gum boils and ulcerated gums and cheeks is astonishing.

#### GLANDULAR ENLARGEMENT.

The following Table shows the extreme prevalence of enlargement of the submaxillary and cervical glands amongst school children. Of newly-admitted children 45 per cent., of second examination 50 per cent., of leavers 34 per cent., and of Higher Grade scholars 48 per cent. were found to suffer from this condition.

The submaxillary are affected more frequently than the cervical glands. This points to dental caries as the commonest cause. A distinction has been drawn between moderate and great enlargement. Glands as large as the stone of a victoria plum are marked as much enlarged. All other glands which can be felt without difficulty are marked as moderately enlarged.

#### ENLARGED GLANDS.

	No. Examined	Moderately Enlarged		Much Enlarged	
		One Side	Both Sides	One Side	Both Sides
New Admissions .....	6968	1236 (17·7)	1749 (25·1)	110 (1·5)	124 (1·7)
Second Examinations...	1584	346 (21·8)	421 (26·5)	40 (2·4)	28 (1·7)
Leavers .....	1776	237 (13·3)	354 (19·9)	16 (0·9)	7 (0·4)
Higher Grade Scholars	610	128 (20·9)	158 (25·9)	6 (0·9)	7 (1·1)

(The figures in parenthesis are percentages.)

## DEFECTIVE VISION.

During the year the vision of 3,918 children of ages 9 to 13 was tested by the teachers by means of Snellen's Test Type. Of those whose visual acuity was found to be  $\frac{6}{18}$  or worse, as many as possible were subjected to a medical re-examination. The results are set out in the accompanying tables.

All those who were wearing glasses were tested with their glasses on.

47 boys and 93 girls were found to be wearing glasses. The vision of 25 of these boys (53 per cent.) and 54 of the girls (58 per cent.) was still  $\frac{6}{18}$  or worse in one or both eyes in spite of their glasses. In some cases vision was actually worse with the glasses than without them. It is safe to say that the great majority of these 79 children were wearing unsuitable glasses. It would be a good thing, and would prevent much disappointment and waste of money, if opticians would refer for skilled medical examination all cases in which they find themselves unable by correction to bring the vision down to normal.

The number of children whose vision in one or both eyes was  $\frac{6}{18}$  or worse was 893, or 22.8 per cent. Of these 369 were boys and 524 were girls. Of the boys, 25 were wearing glasses, and of the remainder, 160 were defective in one eye and 184 in both eyes. Of the girls, 54 were wearing glasses, and of the remainder, 192 were defective in one eye and 278 in both eyes.

Table No. L. shows the numbers and percentages of boys and girls at these ages whose vision in either eye is  $\frac{6}{18}$  or worse.



TABLE L.

Age.	Boys.			Girls.		
	Number Examined	$\frac{6}{18}$ or worse.		Number Examined	$\frac{6}{18}$ or worse.	
		R	L		R	L
9	80	16 (20)	15 (18·7)	57	8 (14·0)	8 (14·0)
10	718	104 (14·4)	123 (17·1)	658	136 (20·6)	147 (22·3)
11	424	51 (12·0)	54 (12·7)	532	104 (19·4)	110 (20·6)
12	654	86 (13·1)	98 (14·9)	520	85 (16·3)	91 (17·5)
13	125	19 (15·2)	21 (16·8)	150	34 (22·6)	41 (27·3)
Total .....	2001	276 (13·7)	311 (15·5)	1917	367 (19·1)	397 (20·7)

(The figures in parenthesis are percentages.)



TABLE LI. BOYS.

Age.	Number	$\frac{6}{6}$		$\frac{6}{9}$		$\frac{6}{1\frac{1}{2}}$		$\frac{6}{18}$		$\frac{6}{2\frac{1}{2}}$		$\frac{6}{3\frac{1}{2}}$		$\frac{6}{6}$ or worse.	
		R.	L.	R.	L.	R.	L.	R.	L.	R.	L.	R.	L.	R.	L.
9	80	22 (27.5)	23 (28.75)	31 (38.75)	34 (42.5)	11 (13.75)	8 (10)	6 (7.5)	6 (7.5)	5 (6.25)	4 (5)	3 (3.75)	2 (2.5)	2 (2.5)	3 (3.75)
10	718	244 (34)	223 (32)	284 (39)	282 (39)	86 (12)	85 (12)	35 (5)	50 (7)	34 (5)	35 (5)	25 (3.5)	23 (3)	10 (1.5)	15 (2)
11	424	144 (34)	139 (33)	182 (43)	184 (43)	47 (11)	47 (11)	18 (4)	13 (3)	10 (2)	16 (3.5)	18 (4)	18 (4)	5 (1)	7 (1.5)
12	654	253 (39)	231 (35)	238 (35)	238 (36)	77 (12)	87 (13.5)	36 (5.5)	42 (6.5)	23 (3.5)	25 (4)	19 (3)	19 (3)	8 (1)	12 (2)
13	125	51 (41)	45 (36)	43 (34)	49 (39)	12 (10)	10 (8)	5 (4)	6 (5)	5 (4)	7 (5.5)	4 (3)	6 (5)	5 (4)	2 (1.5)
Total ...	2001	714 (35.5)	666 (33)	778 (39)	787 (39.5)	233 (11.5)	237 (11.5)	100 (5)	117 (6)	77 (4)	87 (4.5)	69 (3.5)	68 (3.5)	30 (1.5)	39 (2)

The figures in parenthesis are percentages.

TABLE LII. GIRLS.

Age.	Number	$\frac{6}{6}$		$\frac{6}{5}$		$\frac{6}{4\frac{1}{2}}$		$\frac{6}{3\frac{1}{2}}$		$\frac{6}{3}$ or worse.	
		R.	L.	R.	L.	R.	L.	R.	L.	R.	L.
9	57	15 (26.5)	9 (16)	27 (47.5)	27 (47.5)	7 (12)	13 (23)	2 (3.5)	4 (7)	2 (3.5)	1 (1.5)
10	658	138 (21)	136 (20.5)	274 (41.5)	253 (33.5)	110 (17)	122 (19)	48 (7.5)	37 (5.5)	33 (5)	40 (6)
11	532	129 (24)	108 (20.5)	216 (41)	232 (44)	83 (15.5)	82 (15.5)	29 (5.5)	34 (6.5)	28 (5)	33 (6)
12	520	159 (30.5)	147 (28)	196 (38)	199 (38.5)	80 (15)	83 (16)	36 (7)	20 (4)	21 (4)	23 (4.5)
13	150	45 (30)	43 (28.5)	48 (32)	43 (28.5)	23 (15.5)	23 (15.5)	9 (6)	15 (10)	6 (4)	13 (9)
Total ..	1917	486 (25.5)	443 (23)	761 (40)	754 (39.5)	303 (16)	323 (17)	124 (6.5)	110 (5.5)	90 (4.5)	110 (5.5)
Grand Total ...	3918	1200 (30.6)	1109 (28.3)	1539 (39.3)	1541 (39.3)	536 (13.7)	560 (14.3)	224 (5.7)	187 (4.8)	159 (4.0)	197 (5.0)
										73 (1.9)	95 (2.4)

The figures in parenthesis are percentages.

TABLE LIII.—VISION.—BOYS.

SCHOOL	No. exam- ined	Normal.		$\frac{6}{12}$		$\frac{6}{18}$		$\frac{6}{24}$		$\frac{6}{36}$		$\frac{6}{60}$ or worse.	
		R.	L.	R.	L.	R.	L.	R.	L.	R.	L.	R.	L.
Acreington Road .....	52	84.6	88.4	9.8	5.7	...	8.7	...	1.9	3.9	...	1.9	3.9
Andley Range .....	46	82.6	71.2	10.8	15.2	...	...	...	...	...	...	...	2.2
All Saints .....	29	69.0	72.4	24.1	24.1	...	3.4	...	...	...	...	3.4	3.4
Bank Top .....	47	87.2	80.8	4.2	4.2	...	6.4	...	4.2	...	...	2.1	...
Cedar Street .....	63	77.4	76.2	4.7	6.3	...	3.1	...	7.9	4.7	...	1.6	1.6
Christ Church .....	89	83.1	79.7	9.0	5.5	...	1.1	...	6.7	1.1	...	1.1	3.3
Emmanuel .....	56	91.0	89.3	3.6	...	...	7.1	...	1.8	3.6	...	...	...
Furthergate .....	52	67.3	61.5	9.6	17.3	...	11.5	...	9.6	1.9	...	3.9	...
Four Lanes End .....	14	78.5	92.8	14.2	7.1	...	...	...	...	7.1	...	...	...
Griffin .....	33	72.7	84.8	12.1	...	...	9.1	...	6.0	6.0	...	...	...
Holy Trinity .....	86	76.7	66.2	7.0	10.4	...	3.5	...	9.3	2.3	...	1.1	2.3
Lower Darwen C. ....	19	89.4	84.2	5.2	10.5	...	8.1	...	5.2	5.2	...	...	...
Maudsley Street .....	36	52.8	64.0	27.7	19.4	...	8.3	...	2.8	...	...	...	2.8
Moss Street .....	90	77.7	77.7	14.4	11.1	...	3.3	...	3.3	...	...	1.1	1.1
Mill Hill C. ....	52	57.7	55.7	15.4	25.0	...	15.4	...	...	7.7	...	3.9	1.9
Norfolk Street .....	40	80.0	77.5	10.0	17.5	...	5.0	...	2.5	2.5	...	...	2.5
Parish Higher Grade .....	14	92.9	92.9	...	...	...	...	...	7.1	...	...	...	...
Park Road .....	53	71.7	71.7	15.1	7.5	...	5.6	...	5.6	...	...	1.9	3.7
Sacred Heart .....	11	63.6	45.4	9.0	18.1	...	9.0	...	18.1	...	...	...	...
St. Alban's .....	85	71.7	70.6	11.7	10.5	...	4.7	...	7.0	3.5	...	1.2	1.2
" H.G. ....	11	90.9	81.8	...	9.1	...	...	...	...	...	...	9.1	9.1
St. Anne's .....	65	67.7	69.2	9.2	12.3	...	4.6	...	10.7	4.6	...	3.0	7.7
St. Andrew's .....	40	72.5	75.0	10.0	2.5	...	5.0	...	...	10.0	...	2.5	5.0
St. Barnabas' .....	46	73.9	80.4	13.0	6.5	...	4.3	...	4.3	2.1	...	...	2.1

TABLE LIII. — VISION. — BOYS. — Continued.

SCHOOL	No. exam- ined	Normal.		$\frac{6}{12}$		$\frac{6}{18}$		$\frac{6}{24}$		$\frac{6}{36}$		$\frac{6}{60}$ or worse	
		R.	L.	R.	L.	R.	L.	R.	L.	R.	L.	R.	L.
St. Bartholomew's	26	76.9	76.9	11.5	7.7	3.8	11.5	3.8	3.8	3.8	3.2	...	...
St. Gabriel's	31	83.8	74.2	6.4	12.9	6.4	6.4	...	...	3.2	3.2	...	3.2
St. James's, Shear Brow	15	80.0	80.0	6.6	6.6	...	...	6.6	13.3	6.6	...	...	...
" " Black-a-Moor	6	83.3	83.3	...	16.6	16.6	...	...	...	...	...	...	...
" " Guide	18	94.4	94.4	5.5	5.5	...	...	...	...	...	...	...	...
St. John's	72	87.5	87.5	1.4	1.4	5.5	5.5	4.1	2.7	1.4	2.7	...	...
St. Joseph's	68	61.7	61.7	13.2	13.2	5.8	10.3	8.8	5.8	8.8	8.8	1.4	...
St. Luke's	52	61.5	65.4	23.0	23.0	5.7	1.9	1.9	3.9	7.7	5.7	...	...
St. Mary's	51	52.9	52.9	26.1	25.1	13.7	15.7	7.8	3.9	...	1.9	...	...
St. Matthew's	53	71.7	66.0	11.3	13.2	5.6	9.4	3.7	3.7	5.6	5.6	1.9	1.9
St. Michael's	53	90.5	92.4	5.6	3.7	...	8.7	...	...	1.9	1.9	1.9	1.9
St. Paul's	46	60.8	47.8	15.2	21.7	10.8	...	6.5	10.8	4.3	6.5	2.1	4.3
St. Peter's C.E.	29	79.3	79.3	13.8	3.4	...	3.4	3.4	3.4	6.9	6.9	...	3.4
" " R.C.	58	63.8	62.0	22.4	18.9	3.4	12.0	3.4	1.7	5.1	5.1	1.7	...
St. Silas'	56	80.3	80.3	8.9	10.7	3.5	3.5	...	...	3.5	3.5	1.8	3.5
St. Stephen's	48	70.8	56.2	6.2	16.6	8.3	10.4	6.2	8.3	6.2	2.1	2.1	6.2
St. Thomas'	76	72.3	75.0	14.4	10.5	5.2	5.2	2.6	2.6	3.9	2.6	1.3	3.9
Wensley Fold	61	70.5	65.5	18.0	21.1	6.5	6.5	1.6	3.2	1.6	1.6	1.6	1.6
Whalley Range	53	73.6	62.2	15.1	24.5	3.7	5.6	1.9	...	1.9	3.7	3.7	3.7



TABLE LIV.—VISION.—GIRLS.—Continued.

SCHOOL	No. exam-ined	Normal.		$\frac{6}{12}$		$\frac{6}{18}$		$\frac{6}{24}$		$\frac{6}{36}$		$\frac{6}{60}$ or worse	
		R.	L.	R.	L.	R.	L.	R.	L.	R.	L.	R.	L.
St. Bartholomew's .....	22	72·7	63·6	13·6	18·1	4·5	9·1	...	...	4·5	4·5	4·5	4·5
St. Gabriel's .....	30	73·3	70·0	16·6	20·0	...	3·3	3·3	3·3	6·6	3·3	...	...
St. James's, Shear Brow .....	15	93·3	100·0	...	...	...	...	6·6	...	...	...	...	...
" " Black-a-Moor .....	17	64·7	64·7	...	...	17·6	5·8	11·7	23·5	...	5·8	5·8	...
" " Guide .....	18	44·4	50·0	27·7	5·5	5·5	16·6	22·2	11·1	...	11·1	...	5·5
St. John's .....	64	53·1	53·1	20·3	25·0	9·3	6·2	7·8	6·2	4·6	9·3	4·6	...
St. Joseph's .....	82	50·0	41·4	21·9	25·6	10·9	13·4	8·5	12·2	3·5	4·8	...	2·4
St. Luke's .....	44	65·9	59·0	22·7	25·0	2·2	...	...	...	2·2	2·2	2·2	2·2
St. Mary's .....	67	73·1	71·6	13·4	7·4	2·9	4·4	1·4	4·4	5·9	5·9	2·9	5·9
St. Matthew's .....	51	58·8	58·8	19·6	13·7	5·8	7·8	9·8	9·8	3·9	5·8	1·9	3·9
St. Michael's .....	59	74·4	64·4	10·1	18·6	...	3·3	5·0	8·4	6·7	1·6	3·3	3·3
St. Paul's .....	72	68·0	63·9	15·2	16·6	5·5	6·9	5·5	2·7	4·1	4·1	1·4	5·5
St. Peter's C.E. ....	32	78·1	65·6	3·1	9·4	3·1	15·6	12·5	3·1	3·1	3·1	...	3·1
" " R.C. ....	53	54·7	52·8	24·5	26·4	9·4	5·6	7·5	7·5	3·7	7·5	1·8	...
St. Silas' .....	53	66·0	75·4	18·8	13·2	7·5	7·5	3·7	3·7	3·7	...	...	...
St. Stephen's .....	56	67·8	62·5	23·2	25·0	1·7	1·7	1·7	1·7	5·3	7·1	...	1·7
St. Thomas' .....	75	61·3	54·6	21·3	18·6	4·0	4·0	4·0	8·0	5·3	6·6	4·0	8·0
Wensley Fold .....	57	57·9	59·6	22·8	15·7	1·7	7·0	8·7	3·5	8·7	8·7	...	5·2
Whalley Range .....	47	51·0	46·8	21·2	31·9	19·1	10·6	6·3	2·1	2·1	6·3	...	2·1



## DISCHARGING EARS.

A considerable number of children with discharge from one or both ears are still to be met with amongst the school children of Blackburn. Consideration of the adoption of suitable means for dealing with such children is very perplexing. They need systematic and careful treatment, and syringing alone is frequently ineffective. Yet, if the discharge continues, deafness, or even extension of the inflammation and death, may result.

Many of these cases of ear discharge are the after-effects of Scarlet Fever and Measles. Probably a larger number of cases are associated with adenoids and enlarged tonsils.

COMPARISON OF HEIGHTS AND WEIGHTS OF BLACKBURN CHILDREN  
WITH THOSE OF CHILDREN IN CERTAIN OTHER TOWNS.

I have again given a Table showing the above-named comparison.

The towns chosen for comparison with Blackburn are two other Lancashire towns, namely, Darwen and Bolton; a Midland town, namely, Burton-upon-Trent; and a Southern town, namely, Brighton.

The table indicates the favourable position occupied by Blackburn. Again, a comparison between this Table and the similar Tables which have appeared in my previous Education Annual Reports for Blackburn will show that the Blackburn measurements have remained, for the most part, constant, proving that there has been accuracy in obtaining such measurements and in the recording of statistics.



**TABLE LV.**  
**Average Height in Inches (MALES).**

Age	No. Exd.	Blackburn	No. Exd.	Darwen	No. Exd.	Bolton	No. Exd.	Burton upon Trent	No. Exd.	Brighton
3-4	260	36·8	14	36·0	215	35·9	85	37·1	90	32·5
4-5	539	38·7	126	38·7	264	38·1	197	38·5	314	39·0
5-6	639	41·3	184	41·1	383	39·8	131	41·2	403	41·4
6-7	198	43·4	115	43·1	...	...	266	43·6	566	43·6
7-8	664	45·1	71	44·3	...	...	244	44·9	612	45·4
8-9	181	46·9	87	46·3	...	...	2	47·6	94	47·5
9-10	513	49·9	93	49·5	...	...	2	48·7	454	49·7
10-11	894	50·8	111	50·9	...	...	...	...	501	51·1
11-12	522	52·7	111	52·8	...	...	...	...	61	52·9
12-13	886	54·5	109	55·2	1693	53·7	409	54·9	399	55·2
13-14	277	56·1	96	55·5	38	54·4	66	56·7	449	56·5

**FEMALES.**

Age	No. Exd.	Blackburn	No. Exd.	Darwen	No. Exd.	Bolton	No. Exd.	Burton upon Trent	No. Exd.	Brighton
3-4	244	36·4	17	37·1	188	35·6	100	36·4	67	36·2
4-5	452	38·3	113	38·5	260	38·0	170	38·9	275	37·3
5-6	610	41·2	209	40·4	416	39·9	131	40·7	435	41·2
6-7	196	42·0	134	42·9	...	...	234	44·3	526	43·9
7-8	687	45·2	126	44·1	...	...	231	44·8	571	45·1
8-9	195	47·7	97	46·1	...	...	1	45·9	87	49·3
9-10	496	49·2	76	48·6	...	...	1	41·4	419	49·7
10-11	983	51·1	86	50·7	...	...	...	...	515	50·8
11-12	468	52·8	86	52·2	...	...	...	...	66	52·6
12-13	806	54·9	93	55·1	1671	54·1	391	54·4	393	55·9
13-14	272	57·2	153	56·0	42	55·0	44	56·9	478	56·9

**TABLE LVI.**  
**Average Weight in Pounds (MALES).**

Age	No. Exd.	Blackburn	No. Exd.	Darwen	No. Exd.	Bolton	No. Exd.	Burton upon Trent	No. Exd.	Brighton
3-4	260	33·6	14	34·7	215	32·2	85	32·8	90	31·7
4-5	539	36·4	126	36·3	264	35·0	197	35·2	314	34·6
5-6	639	40·8	184	39·9	383	38·2	131	38·8	403	37·7
6-7	198	44·2	115	43·5	...	...	266	43·3	566	41·2
7-8	664	46·8	71	45·9	...	...	244	45·5	612	44·8
8-9	181	51·7	87	49·1	...	...	2	46·3	94	49·1
9-10	513	58·5	93	57·5	...	...	2	55·2	454	54·7
10-11	894	60·9	111	61·4	...	...	...	...	501	57·3
11-12	422	66·9	111	67·0	...	...	...	...	61	64·4
12-13	886	73·3	109	75·0	1693	69·9	409	72·6	399	70·3
13-14	277	77·6	96	73·4	38	72·8	66	78·2	449	74·1

**FEMALES.**

Age	No. Exd.	Blackburn	No. Exd.	Darwen	No. Exd.	Bolton	No. Exd.	Burton upon Trent	No. Exd.	Brighton
3-4	244	33·0	17	33·6	188	30·9	100	31·7	67	30·9
4-5	452	35·4	113	35·7	260	34·6	170	34·5	275	33·1
5-6	610	38·9	209	38·1	416	37·4	131	37·7	435	37·3
6-7	196	40·4	134	41·8	...	...	234	42·3	526	41·2
7-8	687	46·4	126	45·2	...	...	231	44·3	571	44·5
8-9	195	52·2	97	48·8	...	...	1	46·7	87	50·7
9-10	496	56·8	76	51·7	...	...	1	37·0	419	54·7
10-11	983	61·2	86	58·5	...	...	...	...	515	57·6
11-12	468	66·4	86	65·1	...	...	...	...	66	62·6
12-13	806	73·6	93	70·8	1671	70·3	391	71·7	393	73·6
13-14	272	82·5	153	73·2	42	74·5	44	78·0	478	77·8

## PHYSICAL EDUCATION.

It is now generally recognised that the physical well-being of a community is as necessary for its progress as is advance in mental education.

One would like to see, however, more definite attempts at giving greater prominence to well-organised physical education than appear to have been made hitherto.

Whatever may be the future calling in life of our boys and girls, physical ability will be needed for all in a greater or less degree,—greater, probably, in the majority of the boys. Hence it is necessary that physical education should receive close attention in public elementary schools, and should be organised on useful, practical, and scientific lines.

The day has now gone by when the time spent in this way is regarded as a fad, and as an unnecessary interference with mental education. In my opinion, a greater amount of time should be given to physical education than is the case at present.

As a result, many teachers have not been sufficiently impressed with its importance. Again, in certain instances the exercises conducted by the teachers have not been conducted in such a way as to lead to the greatest amount of benefit to the scholars concerned. Indeed, if care is not taken by the teacher, the exercises may be carried out in such a way as to be useless.

All this, of course, implies the thorough training of the teacher in physical education conducted upon a sound scientific basis. If all teachers in the future could be possessed of such, I am sure that the children would benefit, and there is no doubt that the benefit to the health of the teachers themselves would be equally great.

## HANDWRITING.

During the teaching of writing to young children at School, there is much to be said in favour of free-arm drawing at arm's length whilst the child stands erect in the acts of printing and writing on a board placed vertically. Such early tuition would accelerate the development of the muscular sense

of space and form, and this would delay the necessity for writing upon paper with the attendant evil effects of small writing, and bending closely in injurious attitudes over a desk. Free arm drawing in this way would also diminish fatigue and eye-strain.

If young children write much with a pen or pencil, they easily contract the habit in which a few muscles are strained through cramping of the fingers and hand.

During writing the body should be kept square with the desk, the back erect, the feet planted equally and firmly on the foot-rest, and the chest clear of the lower edge of the desk. The left elbow and forearm should lie along the lower border of the desk, the left hand steadying the paper, which should be slightly oblique from left to right. The right arm should be on the desk from the elbow onwards, the pen being comfortably held and free from strain, in a direction nearly parallel with the right forearm; both elbows should point outwards. This appears to be the least tiring position, and is not strained, whilst at the same time it allows no rotation of the trunk. Dr. Kerr, of the London County Council, has set out a grouping of the causes of faulty attitudes in writing, which at the same time suggest the remedies required.

Such causes of faulty attitudes may be:—

*Educational.*—Want of observation by the teacher.

*Departmental.*—Lighting defective in quantity or direction, natural or artificial. Furniture—seats and desks.

*Physical.*—Defective vision and bad visual habits. Malnutrition and debility, rickets, overgrowth.

*Educational.*—There are marked differences in various Schools as to the attitude of scholars during writing. In some, the children sprawl, or crouch, or sit obliquely. In others the attitudes are good. Constant care and patience are needed on the part of teachers in this respect in order that correct positions may be adopted automatically.

*Departmental—Lighting and Furniture.*—There is still room for improvement in the lighting and furniture of some Schools.

*Physical Conditions.*—The exceedingly bad habit of too short a working distance is a great source of trouble. A child constantly exposed to this influence will contract the habit of writing and reading with the face far too near the book, and, although he may have normal vision in early school life, will develop troublesome defective vision. In order to prevent this undesirable condition, special care and supervision on the part of the teacher are required.

It is suggested that the immediate lines of reform in regard to attitudes in writing lie in:—

Constant watchfulness and correction by the teachers. Improvement of illumination by altering the position of desks, by cleansing windows more frequently, and by the better distribution of artificial light.

Correction of the too short eye-work distance, and of any eye defects.

Adaptation of seats and desks to the children, certain sizes for certain children only, and a few extra sizes for each School.

Shorter writing lessons with frequent breaks, and a short setting-up drill by placing the hands behind the back.

Alteration in the handwriting may indicate a symptom of some condition of the child needing a remedy. For example, St. Vitus' Dance or Chorea may produce an altered hand writing which may be irregular or jerky. Any teacher who notices that a child's hand writing has deteriorated, especially in the direction of thickened downstrokes, badly-spaced letters, crowding of letters, or jerky and irregular loops, should suspect St. Vitus' Dance, and should report such a case to the School Medical Officer immediately. Such a suspicion is generally confirmed if this child has become irritable or sulky, or has contracted facial contortions. It is extremely important that the teacher should take this action in such cases, because children so suffering should be excluded from School at once,



and should be medically attended until recovery is complete. It is well known that children with St. Vitus' Dance contract Heart Disease, but, if treatment can be secured early, as shown frequently by an alteration in the hand writing, the risk of subsequent heart mischief may be minimised. Formerly many of these children were punished for bad writing. Now, such children are selected for medical attention, as teachers have begun to realise the significance of changes in the hand writing of children at School.

It may be of interest if I record a case of altered hand writing to which my attention was called by a certain observant head teacher, and which I believe is very rare.

The head teacher in question sent to me a specimen of hand writing of a girl, aged 11 years, in attendance at his School. I visited the School and examined the girl. She was a well-nourished girl of normal development. Her facial expression did not indicate any abnormal condition. The vision was normal. There was no abnormality of heart, lungs, nose, throat, or ears. There was no sign of any bone mischief. The gait was quite normal and steady. The only abnormality I could find consisted of slight fine tremors of both hands. The other reflexes were normal. There were no signs of St. Vitus' Dance. The girl's home conditions and habits were good. I ascertained that this girl's handwriting had always been steady until four months previously, on which occasion the writing was unsteady, remained so for the whole of that day, and then was steady again the following morning. From that time, until the head-master's intimation to me, the writing had remained steady. It then became unsteady for a few hours, but was steady again at the time of my visit. I asked the head master to inform me at once if the writing should become unsteady again. This he did about two weeks later, when the girl was brought to my office, together with a specimen of her handwriting marked "A," and also with a specimen of her normal writing marked "B." I then gave the girl a sentence to copy from a book on Elementary Physiology, and the specimen marked "C," reproduced herewith, was the result.

My suspicions appeared to be confirmed that this was a case of hysterical tremor. Accordingly, if this were so, it

would be probable that the girl could be cured by suggestion. I told the girl that there was nothing the matter with her, and that she could write steadily if she wished, and after about twenty minutes I asked her to write the same sentences again on another card. The result is reproduced herewith marked "D."

Indian ink was employed for writing for photographic purposes. I then suggested to the teacher that, if the tremulous writing recurred, the same measures should be adopted at School, and there was no further trouble.

I have described the above case at some length as it is an interesting illustration of the value of keen observation on the part of a teacher, and of the useful co-operation between the teacher and the School Medical Officer, which led to the adoption of remedial measures which were successful, and which allowed the girl's education to continue with comfort to herself and teacher.



Tuesday January 20<sup>th</sup> 1912.  
 For six days the Lord made  
 Heaven and earth; the sixth  
 day that in them is needed.  
 The seventh day. Likewise  
 gave the Lord blessed the

hast to do. But the  
seventh day is the Sabbath  
of the Lord thy God. In  
it, thou shalt do no manner  
of work; thou and thy  
son and thy daughter, thy  
manservant, and thy maid-  
servant. thy cattle and  
the stranger that is  
within thy gates.

"O"

The Science of Physiology, which concerns us all so closely, cannot fail to be of the most interesting and instructive nature. We think, breathe, talk, see, hear, and feel; we eat drink, and sleep; we perceive the regular beat of the heart, as

"D"

The science of Physiology, which  
concerns us all so closely, cannot  
fail to be of the most interesting  
and instructive nature.

## MISCELLANEOUS ITEMS.

## BLIND CHILDREN.

During the year I certified 7 children as suitable for admission to a Blind Institution.

At the present time the Education Committee have 14 children at various Blind Schools, as follows:—

Fulwood, Preston .....	6
Hardman Street, Liverpool .....	2
Brunswick Road, Liverpool .....	5
Henshaw's Blind Asylum, Manchester ...	1

## DEAF AND DUMB CHILDREN.

During the year I certified 10 children as suitable for admission to a Deaf and Dumb Institution.

At the present time the Education Committee have 15 children at various Deaf and Dumb Schools, as follows:—

Royal Cross, Preston .....	10
Boston Spa .....	4
Royal Schools, Manchester .....	1

## REGENT STREET SPECIAL SCHOOL.

This is a School for mentally deficient children.

The average number on the books of the School during the year was 73.

Seventeen children have been admitted during the year, and 12 have left.

The reasons for leaving were as follows:—

Left the town .....	1
Delicate .....	1
Not suitable .....	1
Working in Mill .....	3
„ in Foundry .....	1
„ as a Clogger .....	1
„ at Bolt Works .....	1
„ on Farm .....	1
„ as a Carter .....	1
„ as an Errand Boy .....	1

At the Swimming Baths, two boys and one girl obtained certificates of proficiency, whilst most of the other children are making satisfactory progress.

Four children received prizes at the Children's Plant Growing Exhibition in September, 1911.

Nine older girls have taken a course in Cookery, Laundry Work, Housewifery, and Simple Dressmaking. Six younger girls have been taught Simple Cookery, Laundry Work, Sewing and Knitting.

In October, 1911, lessons in Tailoring were commenced, and in November, 1911, lessons in Clogging began. Since that time 20 Boys have been employed each afternoon, 10 in each class. They have worked alternately at the two occupations, and have shown splendid results.

The Time-Table includes various forms of Kindergarten and Manual Work, amongst which are:—Indian Basket Work, Brushwork, Rugmaking, Cardboard Modelling, String Bag Making, Clay Modelling, Paper Folding, Scarf Making, etc.

The Head Mistress and other teachers still continue to carry out their work at this School with patience, tact, and enthusiasm.

#### PLANT-GROWING COMPETITION.

At the end of May, 1911, 2,150 young plants, consisting of fuchsias, geraniums, ferns, etc., were distributed to school children by the Parks Committee of the Blackburn Corporation.

Soil for re-potting was supplied to each competitor at the Corporation and Queen's Parks.

The ninth Annual Exhibition of Plants grown by school children was held on September 15th and 16th, in the Corporation Park, and was largely attended by school children and others.

1,850 plants were exhibited in three classes, namely:—

- (a) Plants grown in windows.
- (b) Plants grown in greenhouses.
- (c) Two-year plants.

After competent judging, 354 prizes in the form of bags, purses, writing cases, footballs, cricket sets, and other articles, were awarded to successful competitors.

I regard this practical form of encouragement to school children to take a personal, continuous interest in plant life as an admirable measure in their training.

#### SWIMMING INSTRUCTION.

Altogether 3,920 children, including 2,920 boys and 1,000 girls, attended the swimming baths.

There was a total number of attendances of 99,773.

The Baths Committee of the Blackburn Corporation granted facilities for instruction in swimming as in previous years. The time-table was drawn up by the Special Committee of Teachers, and the work was supervised by this Committee and their Honorary Secretary.

A very high standard was again attained in the art of swimming and life-saving.

A Special Class for Life-Saving was formed at the Freckleton Street Baths, and at the Examination of the Royal Life-Saving Association, all the 24 candidates passed, 15 obtaining the Elementary Certificate, 6 the Proficiency Certificate, and 3 the Bronze Medallion of the Society.

The distances which 1,294 children were able to swim were as follows:—

One breadth .....	204
One length .....	580
Quarter Mile .....	185
Half Mile .....	135
Mile .....	190

Free tickets of admission are granted by the Baths Committee to children who swim the mile, the tickets being available only for that season in which the task is accomplished.

#### FEEDING OF SCHOOL CHILDREN.

I am indebted to the Director of Education for the following information, which is the Fourth Annual Report of the School Canteen Committee.



Throughout the year the food has been cooked at the Mayson Street Centre, and has been distributed at the following Feeding Centres:—Accrington Road Council School, Bent Street Ragged School, Mayson Street Cookery Centre, Mill Hill Salvation Army Barracks, Russell Street Ragged School, Salisbury Street Chapel, St. Alban's Cookery Centre, and St. Anne's Parochial Hall. In no case has a room (other than a Cooking Centre) which has been used for teaching purposes served as a Feeding Centre.

The meals have been provided throughout the year both in school term time and in holidays. During the holidays all the expenses have been defrayed from voluntary contributions.

The Administration Expenses, which were defrayed from the rates, amounted to £213 17s. 4d., as set out hereunder:—

	£	s.	d.
Books, Apparatus, and Repairs ...	45	8	8
Rent of Centres .....	11	1	11
Caretakers' Wages .....	89	11	11
Carriage of Food .....	47	11	0
Gas (share of) .....	20	3	10

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£213 17 4

The Board of Guardians have paid for the meals of those children whose parents were, at the time, in receipt of relief.

Both the cotton lockout and the coal strike had a considerable effect on the number of children fed.

The average number of meals given each day during the lockout and the following two weeks were:—

In the week ending 6th January, 1912 ...	110
"        "        13th        "        "        ...	406
"        "        20th        "        "        ...	1,006
"        "        27th        "        "        ...	1,151
"        "        3rd February, ..	789

The greatest number of meals given on one day was 1,186, on Tuesday, 23rd January, from which date there was a gradual diminution.

In February and March, 1912, 14,212 meals were given by the Canteen Committee, as compared with 5,813 in the cor-

responding months of 1911, an increase over the preceding year of 244 per cent.

The total number of meals given during the year was 59,537, 17,786 being paid for by the Guardians, and the remaining 41,751 from voluntary contributions. The corresponding figures were, respectively, for 1910-11, 68,182, 28,929, and 39,253; for 1909-10, 104,040, 32,504, and 71,536.

The following particulars refer only to those children whose meals were paid for from voluntary contributions, and not from the Guardians:—

Number fed for not more than :

1 week	.....	68 children from	33 families.
2 weeks	.....	461	„ „ 183 „
1 month	.....	343	„ „ 146 „
2 months	.....	155	„ „ 62 „
3 „	.....	96	„ „ 35 „
4 „	.....	58	„ „ 24 „
5 „	.....	35	„ „ 20 „
6 „	.....	26	„ „ 13 „
7 „	.....	19	„ „ 9 „
8 „	.....	26	„ „ 9 „
9 „	.....	17	„ „ 4 „
10 „	.....	2	„ „ 1 „
11 „	.....	2	„ „ 1 „
		1,308	540

Corresponding figures—

1910-11	... 768	287
1909-10	... 1,480	689

The numbers in the respective families were:—Two in 28 cases, three in 39 cases, four in 90 cases, five in 93 cases, six in 106 cases, seven in 76 cases, eight in 54 cases, nine in 34 cases, ten in 17 cases, 11 in two cases, and 12 in one case.

There was only one worker in 184 families, two in 192, three in 82, four in 49, five in 15, six in three families, and seven in one family.

A great number of the 540 families from which children were fed had received out-relief from the Guardians either during part of 1911-12, or in previous years.

The occupations of the fathers included:—Cotton operatives, 121; other skilled workmen, 70; clerk, 1; labourers, 190; carters and drivers, 14; window cleaners, 4; hawkers, 6; commission agents, 2; butcher, 1; artist, 1; salesman, 1; out-porter, 1; rag gatherer, 3; boatmen, 9; juggler, 1; musician, 1; other occupations, 25; father dead or away from home, 85; invalids, 4.

The occupations of the mothers included:—Cotton operatives, 168; house, 298; charwomen and house, 39; machinists, 2; nurse, 1; hawker, 1; laundry, 3; marine store, 1.

The following is a copy of an important recommendation issued recently by the Board of Education:—

GRANTS IN RESPECT OF MEDICAL TREATMENT AND CARE OF  
CHILDREN ATTENDING PUBLIC ELEMENTARY SCHOOLS AND  
CERTAIN SPECIAL SCHOOLS.

1. The Board of Education will make grants in aid of expenditure incurred in the financial year beginning on the 1st April, 1912:—

- (i) by Local Education Authorities on the medical treatment of children attending Public Elementary Schools and work ancillary to medical treatment,
- (ii) by Local Education Authorities or Managers of certain Special Schools on the medical treatment and care of children suffering from tuberculosis or from ailments for which open-air treatment is specially suitable.

2. The total amount of the grants will be limited, and they will be distributed at the discretion of the Board of Education and will not bear any fixed proportion to the expenditure incurred by the Local Education Authorities or Managers of Special Schools. The Board may, if they think fit, pay the grants by instalments.

3. Payment of grant under these Regulations is subject to the fulfilment of the conditions laid down in the Regulations, but if any of these conditions have not been fulfilled, the Board may, nevertheless, when there are special circumstances which would justify it, pay such grant as they may think fit.

4. If any question arises as to the interpretation of these Regulations, or as to the fulfilment of the conditions of grant, the decision of the Board shall be final.

## PART I.

### CHILDREN ATTENDING PUBLIC ELEMENTARY SCHOOLS.

5. Grant will be assessed on the basis of the work done during the year ending on the 31st July 1912. In fixing the grant the Board will take into consideration—

- (a) the number of children in attendance at Public Elementary Schools maintained by the Authority;
- (b) the assessable value of the area;
- (c) the actual expenditure incurred by the Authority in respect of their School Medical Service;
- (d) the extent to which other agencies for providing treatment in the area are utilised;
- (e) the co-ordination of the arrangements for treatment with the arrangements for medical inspection;
- (f) the completeness of the arrangements made by the Authority for the medical supervision of school children and the efficiency of the working of such arrangements as ascertained by the Board from Reports made by their Medical Officers or otherwise.

6. No grant will be made to a Local Education Authority unless the Board are satisfied that the Authority's provision for medical inspection is suitable and efficient or, in respect of medical treatment, unless the Authority's scheme of treatment has been sanctioned under Section 13 (1) (b) of the Education (Administrative Provisions) Act, 1907.

7. As soon as possible after the 31st July, 1912, the Board will require to receive (a) a statement in an approved form as to the expenditure actually incurred in respect of the Authority's School Medical Service (including medical inspection, medical treatment, and undertakings ancillary thereto) during the year ending on that date and (b) a statement showing the Authority's scheme of treatment and work ancillary to treatment for the year beginning on the 1st August, 1912, together with a detailed estimate of the expenditure for that year.

## PART II.

## CHILDREN ATTENDING SPECIAL SCHOOLS.

8. No grant will be payable under these Regulations, except in respect of children attending schools which are certified by the Board of Education under the Elementary Education (Defective and Epileptic Children) Act, 1899, and are conducted in accordance with the Regulations of the Board of Education applicable to such Schools.

9. Grants may be made under these Regulations in addition to the grants payable under the Board's Regulations applicable to such Schools.

10. Grants will be made under these Regulations only in respect of the medical treatment and care of children—

- (i) in residential (open-air) schools for children suffering from tuberculosis, certified by the Board under the Elementary Education (Defective and Epileptic Children) Act, 1899,
- (ii) in day (open-air) schools, similarly certified, for children suffering from pulmonary tuberculosis,
- (iii) in day (open-air) schools, similarly certified, for children suffering from other forms of tuberculosis or from other ailments for which open-air treatment is specially suitable.

11. The grants will be in aid of expenditure incurred in the financial year beginning on the 1st April, 1912, and if the school has been previously recognised, will be assessed on the basis of the work done in the year from the 1st August 1911 to the 31st July 1912.

12.—(a) Local Education Authorities applying for grant under this Part of these Regulations in respect of children attending Special Schools provided by them, must furnish a detailed statement of the manner in which this branch of their medical work is related to their school medical service and their scheme of treatment, together with a statement of the expenditure actually incurred in respect of these children during the year ending on the 31st July 1912, and an estimate of the expenditure to be incurred during the year ending on the 31st July 1913.



(b) Managers of Special Schools applying for grant under this Part of these Regulations must furnish a detailed statement of the arrangements made for the medical treatment and care of the children and a statement of the expenditure actually incurred under these arrangements during the year ending on the 31st July, 1912, together with an estimate of the expenditure to be incurred during the year ending on the 31st July 1913.

(c) The statements and estimates required under this Article should be furnished as soon as possible after the 31st July 1912.

Given under the Seal of the Board of Education the 1st day of April 1912.

(L.S.)

L. A. SELBY-BIGGE.

FOR OFFICIAL USE.

*Circular to Local Education Authorities.*

CIRCULAR 792.

BOARD OF EDUCATION,

WHITEHALL, LONDON, S.W.,

9th April, 1912.

GRANTS FOR MEDICAL TREATMENT OF CHILDREN ATTENDING  
PUBLIC ELEMENTARY SCHOOLS.

SIR,

1. I am directed by the Board of Education to call the attention of the Local Education Authority to the Regulations under which grants will be made by the Board during the Financial Year ending on the 31st March 1913 in aid of the provision of medical treatment for children attending Public Elementary Schools. A copy of the Regulations is enclosed.

2. The work in respect of which grants will be made may be described generally as medical treatment and work preparatory to, or associated with, such treatment, including the "following-up" of defects discovered at the school medical inspection, with a view to securing appropriate amelioration by voluntary agencies or otherwise. While grant will not be payable in respect of the routine medical inspection of the

groups of children prescribed by the Code, the Board will, in assessing the grant for treatment, take into account the character and completeness of the provision made for medical inspection and the degree of efficiency with which it is carried out.

The Board are indeed precluded under the Regulations from making any grant whatever unless they are satisfied with the Authority's provision for medical inspection. It will be understood that the Board's formal expression of satisfaction with the provision made for medical inspection in any area under Articles 25 (c) and 58 (b) of the Code, the requirements of which, it may be observed, are not affected by the new Regulations, will not necessarily indicate that the Board are satisfied that the actual practice of the Local Education Authority in this respect is of such a character or degree of thoroughness as would justify the Board in deeming the provision suitable and efficient when considered as preparatory treatment.

3. In this connection it may be convenient to state briefly the points which in the Board's view are of fundamental importance in any adequate scheme of medical inspection, and to which, therefore, they will pay special regard, when reviewing the provision made by the Authority, for the purpose of deciding whether grants can properly be paid for medical treatment and for preparatory and associated services undertaken in the area. In the first place it is necessary that the scheme of the Authority should make provision for the inspection of all children coming within the categories prescribed by the Code. In rural areas, where the schools are difficult of access, it is sometimes inevitable that a few children who are absent from school on the days of the Medical Officer's visits should escape inspection, but, as a rule, the fact that any considerable proportion of the total number of children in the area falling within the prescribed groups were not actually inspected, would be sufficient in itself to disqualify a scheme for purposes of grant. From this point of view, and also from that of providing opportunity for the re-examination of children in whom defects requiring treatment are revealed by inspection, it is important that arrangements should be made for the Medical Officer to visit the schools as frequently as practicable. The Board are not prepared to take the view that



one visit a year is sufficient. In the second place, the Board desire to emphasise the importance of the routine medical inspection taking place on the school premises and in school hours. In special circumstances the sanction of the Board may be sought for some other arrangement, but such cases should be exceptional. Thirdly, the inspection itself should include all the points mentioned in the Board's Schedule which accompanied Circular 582, and a full and accurate record should be made in respect of each child. A separate record should also be kept of all children found to be defective, including particulars of "special" cases referred by the teachers. Experience has shown that, as a general rule, a reasonably careful and complete medical inspection cannot be made if more than eight to ten children are examined in the hour. The parents of the children who will be examined should invariably be notified of the day and hour appointed for the Medical Officer's visit, and should be invited to attend the inspection; and a school nurse or woman teacher should in all cases be present during the inspection of girls. Fourthly, the work of medical inspection should be carried on in intimate conjunction with the Public Health Authority and under the direct supervision of the Medical Officer of Health. In those areas in which the Medical Officer of Health is not himself School Medical Officer, it will be necessary for the Local Education Authority to satisfy the Board that effective co-ordination between the two officers is, in fact, secured in practice. The Board are glad to believe that these various conditions already obtain in the schemes adopted by most Local Education Authorities. In this connection, the Board desire to call the attention of the Authority to the necessity of furnishing the School Medical Officer with suitable office accommodation, and of making adequate provision for the clerical work involved in the proper fulfilment of his duties.

4. For the purpose of assessing grants in respect of the work of the school medical service which is ancillary to, or associated with, medical treatment, the Board will be prepared to take into account ameliorative undertakings falling under any of the following heads, if carried out by the School Medical Officer or his staff, or under his direction or supervision :—

- (a) the re-examination, after a suitable interval, of children found to be defective at the routine inspection, with a view to ascertaining whether appropriate treatment has been obtained, and the results of any treatment;
- (b) the further examination (including the examination of defective eyesight for errors of refraction) at Inspection Clinics or elsewhere, of children who have been found to be defective at the routine inspection;
- (c) the examination at Inspection Clinics or elsewhere of "special" cases referred by school attendance officers, care committees, teachers, parents and others;
- (d) the "following-up" of cases of defect by school nurses or health visitors by means of visits to the schools or the homes of the children in order to ascertain whether the parents have obtained and are following medical advice, or with a view to advising, instructing, or aiding parents in regard to obtaining treatment of minor ailments, or with a view to arranging for or supervising the cleansing of children who have been found to be in an uncleanly or verminous condition;
- (e) the following-up and after care of cases of defect by children's care committees and other agencies working in co-operation with the School Medical Officer.

5. Similarly, for the purpose of assessing grants in respect of medical treatment proper, the Board will take into account treatment falling under any of the following heads, if carried out by the School Medical Officer or his staff, or under his direction or supervision:—

- (i) the treatment of minor ailments carried out by school nurses;
- (ii) the provision of spectacles, surgical or other appliances;
- (iii) Arrangements for medical or surgical treatment at hospitals, infirmaries, dispensaries, &c., or by private practitioners;

- (iv) treatment at School Clinics whether at general clinics for the treatment of various kinds of defects, or at special clinics providing for one type of ailment only, *e.g.*, dental caries.

6. In assessing grants under the Regulations, the Board will examine closely the Authority's arrangements for co-ordinating the work of the school medical service with voluntary or other agencies, in order that the fullest possible use may be made of all available facilities or agencies for treatment already existing in the area. They will also consider carefully the arrangements made and enforced for the control of infectious, contagious and other diseases (including the provision for the exclusion and re-admission of individual children) and for securing co-ordination between the school medical service and the school attendance department. Such inter-relation will ensure that the School Medical Officer has full knowledge of all children absent from school on medical grounds, and will enable him to satisfy himself that on the one hand the children are receiving the necessary treatment to allow of their return to school at the earliest opportunity, and, on the other hand, are not re-admitted too soon or in a condition likely to prove detrimental to themselves or to other scholars.

7. In all cases in which defects are discovered, it is essential that clear and full records should be kept of the steps taken to secure effective medical treatment, the nature of the treatment provided and its results. This is necessary, not only that the Local Education Authority may be in a position to judge of the effectiveness of the work, but also for the purpose of preparing an adequate statement of the results accomplished, which will be available for the consideration of the Board when they proceed to assess the grant under the Regulations.

8. The Board desire to direct special attention to section 163 of the Report for 1910 of their Chief Medical Officer. As indicated in that section, it appears that the disorders and maladies which are most suitable for treatment directly provided by Local Education Authorities under Section 13 of the Education (Administrative Provisions) Act, 1907, are limited in practice to minor ailments, uncleanness, ringworm and

other common skin diseases of children, defective eyesight or hearing, some external affections of the eyes and ears, and various temporary conditions of the mouth (including teeth), nose and throat. It is impossible entirely to exclude other conditions of a more general nature which can be dealt with while the child is in attendance at school, but there are affections and ailments which the Board would regard as being outside the ordinary province of the School Medical Officer, and which they would not deem suitable for inclusion in the Authority's scheme of treatment, unless it were shown that adequate treatment at a reasonable cost could not be otherwise obtained.

9. It is desirable that all new schemes of treatment, which it is intended to put into operation during the year commencing on the 1st August 1912, should be submitted for approval to the Board at the earliest possible date, in order that the Board may be in a position to give due consideration to the schemes, and to arrange, if necessary, for a visit of inquiry or inspection by one of their Medical Officers. The scheme should be accompanied by a detailed estimate of the expenditure to be incurred during the year.

Applications for the renewal of the Board's sanction to schemes of treatment which have already been sanctioned for the current Code year should be made by Local Education Authorities as soon as possible after the 31st July next, and should be submitted concurrently with the statement of the expenditure incurred during the year ending on that date, which is required by Article 5 of the Regulations. A Form will be provided for the purpose of this statement, and copies will be sent to Local Education Authorities in due course. The Board will then consider the questions of making a grant in aid of the expenditure of the Authority during the Financial Year ending on the 31st March 1913, and of renewing their sanction to the scheme of treatment, subject to any modifications or additions which may be proposed, for the year ending on the 31st July 1913. The applications for renewal of sanction should, in all cases, be accompanied by a detailed estimate of the proposed expenditure. A statement of the provision for Medical Inspection should be made on Form 9 M.I. as heretofore.



10. The Board desire to take this opportunity of reminding Local Education Authorities that the Annual Reports of their School Medical Officers should follow the lines laid down in Circular 596 (paragraph 6), although there is, of course, no necessity to repeat formal matter each year. Many of the Reports which have been received have contained very valuable information, but in some cases the Reports have been inadequate and of little practical value. Full information should be given as to the working of any schemes of treatment sanctioned by the Board, and the Reports should also contain a detailed statement of the work done in following up cases in which defects have been discovered, including particulars as to the number of re-examinations carried out by the medical officers, the work of the school nurses, whether at the schools, at the homes of the children or elsewhere, and the work done at any Inspection Clinic or Centre which the Authority may have established. The Board are reluctant to add in any way to the burden already imposed on Local Education Authorities in regard to the preparation of Returns, but the Authority will realise that the information now asked for cannot be dispensed with if the Board are to be in a position to decide whether the work done is of sufficient value to justify them in making a grant under the Regulations, and to furnish the requisite information to Parliament as to the administration of these grants.

11. While the Board will for the present be prepared to take into account for purposes of grant any scheme for the provision of treatment which comes within the scope of paragraph 5 of this Circular, even though the scheme provides for the treatment of one type of defect only, they trust that Local Education Authorities will eventually take a comprehensive view of the powers conferred on them by Parliament and will frame adequate schemes for the treatment of those children for whom appropriate treatment cannot be otherwise secured. The Board fully appreciate the action which has already been taken in the matter by certain Authorities, and they trust that the grants which they are now in a position to make will prove an incentive to further effort. In devising schemes, however, due weight should be given to considerations of economy, and the possibility of joint action between neighbouring Authorities should not be overlooked. It is important

also that the fullest opportunities should be given for securing treatment by voluntary agencies, including hospitals, which, whatever provision be made by Local Education Authorities, must still remain an essential and complementary factor in the treatment of many of the common diseases of child life, the effective alleviation of which cannot properly be undertaken by the Authority. Further, it is very desirable that no steps should be taken which would lessen the responsibility of the parents or deter them from seeking to secure the physical well-being of their children by improving their home conditions or by obtaining the advice of their own medical attendants with regard to such specific treatment as may be necessary. Experience has shown, however, that voluntary agencies alone do not and cannot cover the whole field and that among the children attending Public Elementary Schools there is a large amount of disease and defect which will remain unremedied unless the Local Education Authorities take full advantage of the powers conferred on them. By using these powers they will accomplish work which cannot fail to be of great and lasting value, not only in alleviating the sufferings of the children and increasing their capacity to profit by the education provided for them, but also in laying a foundation of health on which must largely depend the success of any national scheme for promoting the physical welfare of the adult population.

12. In conclusion, I am directed to call the attention of the Authority to Part (II) of the Regulations, under which additional grant may be made by the Board in aid of treatment provided in open-air schools, day or residential, for children suffering from various forms of tuberculosis and other ailments. The Board hope to issue a further memorandum on the subject of institutional and other treatment for children affected with tuberculosis, but before doing so they will await the publication of the Report of the Committee recently appointed by the Chancellor of the Exchequer to consider the whole problem of the treatment of tuberculosis in the United Kingdom.

I am, Sir,

Your obedient Servant,

L. A. SELBY-BIGGE.

*To the*

*Local Education Authority.*

MORTALITY AMONGST BLACKBURN SCHOOL  
CHILDREN DURING 1911.

The following Table is of interest as showing the mortality amongst Blackburn children between the ages of 3 and 13 years, from the various causes.



TABLE LVII.

**Deaths of Children in Blackburn during 1911, between the ages of 3 and 13 years inclusive.**

Cause of Death.	AGE PERIODS.													Males	Females	TOTAL
	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14					
<i>Zymotic Diseases :</i>																
Measles .....	...	4	...	...	...	...	...	...	...	...	...	2	2	4		
Scarlet Fever .....	1	3	1	...	...	1	...	...	...	...	...	2	4	6		
Whooping Cough .....	1	1	1	...	...	...	...	...	...	...	...	1	2	3		
Diphtheria, Membranous Croup .....	2	2	4	3	4	3	3	...	...	...	1	9	13	22		
Diarrhœa .....	2	...	...	..	...	...	...	1	...	...	...	1	2	3		
<i>Tubercular Diseases :</i>																
Tuberculosis of Brain, or Meninges .....	...	1	1	...	...	...	...	1	...	...	...	1	2	3		
Tuberculosis of Lungs...	1	...	...	...	1	1	...	...	...	...	1	2	2	4		
Tuberculosis of Intestines .....	1	1	...	1	...	...	...	1	...	...	..	2	2	4		
General Tuberculosis ...	1	1	...	...	...	...	...	...	...	1	1	2	2	4		
Other Forms of Tuberculosis, Scrofula .....	2	...	...	...	...	1	...	...	...	...	...	2	1	3		
<i>Nervous Diseases :</i>																
Convulsions .....	...	...	1	...	...	...	...	...	...	...	...	..	1	1		
Meningitis .....	...	...	3	1	...	1	1	...	..	...	...	2	4	6		
Cerebral Tumour .....	...	...	1	..	..	...	...	...	...	...	...	1	...	1		
Epilepsy .....	...	...	...	1	...	...	...	...	...	...	...	1	...	1		
Paraplegia, Diseases of Spinal Cord .....	...	...	...	...	...	1	...	...	...	...	...	...	1	1		
Other and Ill-Defined Diseases of Brain or Nervous System .....	...	1	...	..	...	...	...	...	...	...	...	1	...	1		
<i>Diseases of the Circulatory System :</i>																
Valvular Diseases of the Heart .....	...	...	1	...	1	1	...	...	1	...	1	1	4	5		
Heart Diseases Undefined .....	...	...	...	1	...	...	...	...	...	...	...	...	1	1		

TABLE LVII.—Deaths of Children.—Continued.

Cause of Death.	AGE PERIODS.														Males	Females	TOTAL
	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14						
<i>Diseases of the Respiratory System :</i>																	
Acute Bronchitis .....	...	1	2	1	...	...	...	...	...	...	...	...	1	3	4		
Lobar, Croupous Pneumonia .....	2	...	...	...	...	...	...	...	...	...	...	...	1	1	2		
Lobular, Broncho-Pneumonia .....	5	3	...	...	...	1	...	...	...	...	...	...	6	3	9		
Pneumonia .....	...	2	...	1	...	1	...	1	...	...	...	...	3	2	5		
Pleurisy and Empyema.	...	...	...	...	1	...	...	...	...	...	...	...	...	1	1		
<i>Diseases of the Digestive System :</i>																	
Diseases of the Mouth and Annexa .....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1		
Appendicitis .....	...	...	1	1	...	...	1	...	...	...	...	...	2	1	3		
<i>Diseases of the Urinary System :</i>																	
Acute Nephritis .....	...	...	...	...	...	1	...	...	...	...	...	...	1	...	1		
Bright's Disease .....	...	...	...	...	...	...	...	...	...	...	1	1	1	...	1		
<i>Other Diseases :</i>																	
Epidemic Influenza ....	...	...	...	...	...	...	1	...	...	...	...	...	1	...	1		
Rheumatic Fever .....	...	...	...	1	...	...	...	...	...	...	...	...	1	...	1		
Cancer .....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	1		
Congenital Defects ....	...	1	1	...	...	...	...	...	...	...	...	...	1	1	2		
Atrophy, Debility, Marasmus .....	1	...	...	...	...	...	...	...	...	...	...	...	1	...	1		
Otitis, Otorrhœa .....	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1		
Laryngitis .....	1	...	2	...	...	...	...	...	...	...	...	...	1	2	3		
Croup .....	1	...	...	...	...	...	1	...	...	...	...	...	1	1	2		
Burns and Scalds .....	5	...	...	1	1	...	...	...	...	...	...	...	2	5	7		
Drowning .....	...	...	...	...	3	...	...	1	...	...	...	...	4	...	4		
Vehicular Traffic .....	1	...	...	1	1	...	...	...	...	...	...	...	2	1	3		
Ill-Defined Causes .....	...	1	...	...	...	...	...	...	...	...	...	...	...	1	1		
Totals .....	30	22	19	13	12	12	7	5	1	1	5	60	67	127			

### **The Treatment of Defects discovered in the Medical Inspection of Blackburn School Children.**

No direct treatment of these defects has been carried out by the Blackburn Education Authority.

As already stated, each Tuesday morning is devoted by myself to interviews with parents at the Health Office, and to the examination of their accompanying children, who had been referred to me specially by the School Attendance Officers.

Each Wednesday afternoon is devoted by Dr. Linton to interviews with parents at the Health Office, and to the further examination of their children who had been previously selected by him from amongst the scholars, at various Schools, during his systematic medical inspections.

The above constitute our only substitute for a School Clinic in Blackburn at the present time.

The following is Dr. Linton's account of his Wednesday afternoon examinations:—

During the year 1911, 2,334 notices of defects were sent out, and in response to these the relatives or friends of 348 children (about 1.5 per cent.) called at the Health Office on Wednesday afternoons in order to obtain further information about the defect from which these children had been found to be suffering. In 272 cases the children were brought to the office. It is very desirable that this should be done, as the defect may then be demonstrated to the parent. In 268 cases, enquiry was made by the mother; in 45 cases, by the father; and in the remainder, by other relatives or friends.

The defects from which these 348 children were suffering were as follows:—

Defective Sight .....	150
Adenoids .....	35
Enlarged Tonsils .....	28
Squint .....	26
Anæmia .....	22
Deafness .....	22
Bad Teeth (needing immediate attention) .....	21

Blepharitis .....	20
Otorrhœa .....	19
Heart Disease .....	12
Keratitis .....	8
Ringworm .....	8
Mouth Breathing .....	5
Talipes .....	4
Enlarged Tonsils and Adenoids .....	3
Tonsillitis .....	3
Conjunctivitis .....	3
Greatly Enlarged Glands .....	3
Abscess .....	3
Scabies .....	2
Bronchial Catarrh .....	2
Impetigo .....	1
Chorea .....	1
Laryngitis .....	1
Myxœdema .....	1
Foreign Body in Eye .....	1
Torticollis .....	1
Ulcer in Foot .....	1
Stammering .....	1
Psoriasis .....	1
Debility .....	1
Spinal Caries .....	1
Infantile Paralysis .....	1
Overwork* .....	1

\* This boy was attending School all day, and during the dinner interval, and in the evening and on Saturday, was employed at a shop as an errand boy. He also suffered from bad sight and sore eyes.

In addition, 4 children were sent direct from School by teachers for the following ailments:—

Scabies (excluded) .....	2
Bad Sight .....	1
Sore Head .....	1

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As I have stated previously,, a most important part of the work connected with School Medical Inspection consists in visitation of homes by School Nurses.

In October, 1911, a second whole-time School Nurse commenced work in Blackburn.

These two Nurses have been able to persuade a considerable number of parents to obtain suitable treatment for children who would not otherwise have received remedial measures.

For the quarter ending December 31st, 1911, 60.9 per cent. of those children previously found to be suffering from defects received attention. A perusal of the following pages will show that the majority of the defects concerned the eyes and the teeth.

Also the School Nurses have rendered valuable services in the unpleasant work of causing dirty children, especially those with dirty heads, to be cleansed. Altogether the work of these two Nurses is to be highly commended.

For the above reasons, therefore, I have considered it to be my duty to advise the Blackburn Education Authority to delay the establishment of a School Clinic for the present.

I believe that a further trial of twelve or eighteen months in the home visitation by the two School Nurses will result in a larger percentage of school children, suffering from defects, receiving remedial measures.

The following summary of the work of one School Nurse from January to September, and of two School Nurses from October to December, 1911, is of great interest, because it is a record of actual benefit gained, through the process of "following up" at their own homes, those children who had been discovered during the systematic examination at the Schools to be suffering from defects.

During the year ending December 31st, 1911, 2,334 notices were sent to parents respecting defects found amongst school children.

These notices comprise 2,650 defects, which are tabulated in School order in Table LVIII.

The number of defects enquired into by the School Nurses during the year was 2,727. This number includes cases left over from the previous year.



The total number of visits paid by the School Nurses during the year 1911 was 4,543. These visits included 217 to the Schools, and 3,637 to those houses containing children who have been discovered, through medical inspection at the Schools, as suffering from various defects, and to whose parents medical advice has been suggested where such had been considered necessary.

As showing it is very often necessary for the School Nurses to visit the homes more than once before any satisfaction can be obtained, the following statement is of interest.

1,245	cases	required	1	visit.
777	„	„	2	visits.
248	„	„	3	„
22	„	„	4	„

In addition to the above, 189 cases of Dirty Heads, Sore Heads, and dirty conditions generally were visited at home by the School Nurses. In all, 689 visits were paid to such cases before they were considered fit to return to School.

As a result of visits and re-visits to the above-mentioned defects, it was ascertained that 1,627 had received treatment, and 1,289 did not receive any treatment.

Thus 55.8 per cent. of these defects received treatment.

Respecting the 1,627 defects which received treatment, it was ascertained that 683 were treated by the general medical practitioners, 203 received treatment at the Blackburn and East Lancashire Infirmary, 99 visited an optician to obtain glasses or to have their glasses changed, 130 visited dentists so that attention might be paid to their teeth, and 512 received some form of home treatment, such as extra nourishment in cases of anæmia, and ointment from chemists in certain cases of skin trouble.

Respecting the 1,289 defects which did not receive any treatment, in spite of repeated visitation by the School Nurses, they were informed that poverty was the cause in 86 instances, and they were of opinion that apathy and neglect on the part of the parents was the cause of non-treatment in 248 instances.



In 143 instances the child had left School and commenced work, and the parents informed the School Nurses they did not intend to obtain any treatment. In 68 instances the child had left the town, in 71 instances the child could not be traced, and in 132 instances the parents promised to give the matter attention, but up to the last visit of the School Nurses no such treatment had been obtained.

In 455 instances, although repeated visits were made, no information could be obtained because the parents were not at home.

In 86 instances the parents attended the Health Office for advice.

It will now be of interest if I record further details respecting the measures taken by parents in certain defects which had been found.

*Enlarged Tonsils.*—219 cases of Enlarged Tonsils were visited at their own homes by the Nurses, *i.e.*, in following up notices which had previously been sent to the parents concerning the defective condition of their children. Of these 219 cases, 120 received treatment and 99 did not receive treatment. Of the 99 cases which did not receive treatment, the cause appeared to be poverty in 4 instances, apathy and neglect in 42 instances, 2 of the children having begun full-time work. In 7 instances the parents of the children attended the Health Office for advice. In the remaining 44 instances the children had left the town or no definite cause could be ascertained. 19 children were operated upon at home and 24 at the Infirmary.

*Tonsils and Adenoids.*—63 cases of Tonsils and Adenoids were visited at home by the Nurses. In 37 instances treatment was obtained, and in 26 instances there was no treatment. The cause of non-treatment appeared to be poverty in 2 instances, apathy and neglect in 8 instances, 1 child had gone full-time. The parents of 1 child attended the Health Office for advice. In the remaining 14 instances the children had left the town, or no definite cause could be ascertained. 7 children were operated upon at home, and 11 at the Infirmary.

*Adenoids.*—179 cases of Adenoids and Nasal Obstruction were visited at their homes by the School Nurses. In 114 instances treatment was obtained, and in 65 instances there was no treatment. The cause of non-treatment appeared to be apathy and neglect in 14 instances, 2 children had gone full-time. The parents of 2 children attended the Health Office for advice. In the remaining 47 instances the children had left the town, or no definite cause could be ascertained. Four children were operated upon at home, and 14 at the Infirmary.

*Eye Defects.*—1,253 cases of Eye Defects, including defective vision, were visited by the School Nurses. In 533 cases treatment was obtained, and in 720 cases no treatment was obtained. The cause of non-treatment appeared to be poverty in 64 instances, apathy and neglect in 120 instances, 116 children had gone full-time, 60 children had left the town, or could not be traced, and the parents of 68 children attended the Health Office for advice. In the remaining 292 cases no definite cause was ascertained. One child was operated upon at the Infirmary, and 178 children obtained glasses.

*Diseases of the Ear.*—213 cases were visited at home by the School Nurses. In 139 instances treatment was obtained, and in 74 instances no treatment was obtained. The cause of non-treatment appeared to be poverty in 1 instance, apathy and neglect in 10 instances. Five children had begun to work full time. The parents of 1 child attended the Health Office for advice. In the remaining 57 cases the children had either left the town, or no definite cause could be ascertained. Two children were operated upon at home and three at the Infirmary.

*Anæmia.*—167 cases were visited at their own homes by the School Nurses. In 138 instances treatment was obtained, and in 29 instances no treatment was obtained. The cause of non-treatment appeared to be poverty in 2 instances, and apathy and neglect in 2 instances. Four children had begun to work full time. The parents of 1 child attended the Health Office for advice. In the remaining 20 cases, the children had either left the town, or no definite cause was ascertained.

*Carious Teeth.*—392 cases were visited at their own homes by the School Nurses. In 179 instances treatment was obtained, and in 213 instances no treatment

was obtained. The cause of non-treatment appeared to be poverty in 11 instances, and apathy and neglect in 42 instances. Eleven children had begun to work full time, and 16 children had left the town. The parents of 2 children attended the Health Office for advice. In the remaining 131 instances no definite cause could be ascertained.

*Skin Diseases.*—88 cases were visited at their own homes by the School Nurses. In 73 cases treatment was obtained, and in 15 cases no treatment was obtained. The cause of non-treatment appeared to be apathy and neglect in 1 instance. Three children had left the town. In the remaining 11 instances no definite cause could be ascertained.

*Dirty Heads, etc.*—189 cases of very bad dirty and sore heads and dirty conditions generally were visited at their homes by the School Nurses. In all these instances the conditions were remedied. A considerable portion of the Nurses' time is spent in the homes of these people.

*Respiratory Diseases.*—42 cases were visited at their own homes by the School Nurses. In 36 instances treatment was obtained, and in 6 instances no treatment was obtained. The cause of non-treatment appeared to be apathy in 1 instance, and 1 child could not be traced. The parents of 1 child attended the Health Office for advice. In the remaining 3 instances no definite cause could be ascertained.

*Circulatory Diseases.*—49 cases were visited at their own homes by the School Nurses. In 27 instances treatment was obtained, and in 22 instances no treatment was obtained. The cause of non-treatment appeared to be poverty in one instance, apathy and neglect in 5 instances. Two children had begun to work full time, and 5 children had left the town, or could not be traced. The parents of 1 child attended the Health Office for advice. In the remaining 8 instances no cause could be ascertained.

*Other Diseases.*—62 cases were visited at their homes by the School Nurses. In 42 cases treatment was obtained, and in 20 cases no treatment was obtained. The cause of non-treatment appeared to be poverty in 1 instance, apathy and neglect in 3 instances. Four children had left the town, or

could not be traced. The parents of 2 children attended the Health Office for advice. In the remaining 10 instances no definite cause could be ascertained. One child was operated upon at home, and one at the Infirmary.

It will be seen from the foregoing statement that the percentage of defects treated is somewhat lower than previous years, but on analysis it may be observed that, with the exception of Eye Defects and Carious Teeth, the defects remedied show good percentages.

Out of a total number of 2,916 defects visited during the year, it was ascertained that 1,627 had received treatment, and 1,289 did not receive treatment. Of the 1,289 defects not treated, 143 children had gone full-time when the School Nurse visited the home, 68 had left the town, and 71 could not be traced. If these are deducted from the total defects visited during 1911, we should obtain the number of cases actually in the Schools of the Borough at the present time. This would leave 2,634 defects amongst children attending Schools in Blackburn, and a percentage of cases treated of 61.7.

In addition to the above, 455 cases were visited, and on account of the parents being at work, or being away from home, no particulars could be obtained. In a town like Blackburn, where many fathers and mothers go out to work all day, it is difficult to obtain better information respecting the treatment of defects. I have now made arrangements for my Assistant to visit the Schools periodically to inspect the children whose parents have been notified of any defect found during the systematic medical inspection of school children and ascertain if any treatment has been obtained. If these 455 defects of which no definite particulars could be obtained were deducted, it would give a total number of 2,179 defects of which particulars had actually been obtained, and the result would be a percentage of 74.6 cases treated during the year 1911.

As stated previously, Eye Defects and Carious Teeth show the worst percentages of treated cases.

The following analysis will show clearly the effect these two groups of defects have on the total percentage of treated cases during the year 1911:—

							Percentage of cases treated.
			Treated.		Not treated.		
Total Defects found	2916	...	1627	...	1289	...	55.8
Eye Defects .....	1253	...	533	...	720	...	42.5
Carious Teeth .....	392	...	179	...	213	...	45.6

If we leave out of consideration the Eye Defects and Carious Teeth, the number of cases treated during the year gives a percentage of 71.9. On the other hand, the percentage of cases of Eye Defects and Carious Teeth treated is only 43.2.

It will therefore be seen that these two groups of defects have affected considerably the percentage of defects treated in Blackburn during 1911.

The principal defect included in the Eye Defects was Defective Vision, and many parents have a strong objection to their children wearing glasses. Many parents also have stated that the children have not complained of their Eyesight being defective, and they would take no action until they did.

Many parents have also stated that their children have not complained of toothache, and until they did they would not see a dentist.

In Table LIX. I have given the percentage of treated cases in each group of defects during the year 1911.



TABLE LVIII.  
Showing defects found for which notices were sent to parents.

SCHOOL.	Tonsils	Tonsils and Adenoids	Adenoids	Eye Defects	Ear	Skin	Circulatory Diseases	Respiratory Diseases	Anæmia	Teeth	Dirty Heads, &c.	Others
Accrington Road .....	3	...	4	33	3	2	2	1	3	4	...	2
Audley Range .....	6	...	5	17	4	1	1	1	4	3	...	1
All Saints' .....	3	...	1	16	4	1	...	3	2	...	...	2
Bank Top .....	8	...	3	45	11	1	...	2	...	4	...	1
Blakey Moor C. ....	5	...	1	12	...	...	...	...	3	48	...	1
Cedar Street .....	10	3	9	34	13	2	3	...	2	3	2	2
Christ Church .....	4	13	9	62	6	3	...	2	8	23	2	5
Emmanuel .....	5	4	2	32	5	2	2	...	4	25	1	3
Furthergate .....	3	6	5	42	2	3	...	1	5	3	1	6
Four Lanes End .....	1	...	1	8	2	1	...	...	2	1	...	...
Griffin .....	...	...	2	22	3	1	2	2	5	...	...	2
Higher Elementary .....	1	...	...	17	...	...	...	...	...	63	...	...
Holy Trinity .....	8	...	3	34	7	...	...	...	...	13	...	...
Lower Darwen C. ....	1	1	...	4	...	...	...	1	3	1	...	3
Mandsley Street .....	2	...	3	25	4	3	...	...	2	1	2	2
Moss Street .....	3	2	6	36	8	1	1	1	4	7	1	4
Mill Hill C. ....	6	...	5	26	3	1	3	...	10	3	1	4
Norfolk Street .....	4	2	1	7	2	3	1	1	4	5	...	2
Parish Higher Grade .....	5	1	3	24	2	...	2	...	5	5	...	1
Park Road .....	3	...	4	23	4	5	3	3	5	7	...	...
Sacred Heart .....	1	...	2	...	3	...	1	...	3	2	...	...
St. Alban's .....	10	3	12	71	22	4	7	4	9	15	...	4
" H.G. ....	3	...	1	1	3	...	1	...	1	4	...	...
St. Anne's .....	8	...	6	27	9	4	1	3	3	2	1	2



TABLE LVIII.—Continued.

Showing defects found for which notices were sent to parents.

SCHOOL.	Tonsils	Tonsils and Adenoids	Adenoids	Eye Defects	Ear	Skin	Circulatory Diseases	Respiratory Diseases	Anemia	Teeth	Dirty Heads, &c.	Others
St. Andrew's .....	5	1	8	25	6	4	...	...	...	4	2	3
St. Barnabas' .....	3	1	3	29	3	1	...	3	1	3	...	4
St. Bartholomew's .....	3	6	3	22	1	1	2	...	2	3	4	2
St. Gabriel's .....	2	...	3	7	...	...	1	...	1	2	...	...
St. James's C.E. ....	1	...	...	8	...	...	1	...	3	1	...	...
" Black-a-Moor .....	3	1	...	6	4	1	1	1	4	1	...	1
" Guide .....	1	...	1	15	...	...	1	1	3	1	...	4
St. John's .....	4	2	2	24	5	1	...	1	2	1	...	...
St. Joseph's .....	4	3	11	70	5	2	2	...	6	12	...	9
St. Luke's .....	3	...	8	31	3	...	...	...	2	2	1	1
St. Mary's .....	5	1	6	56	5	1	1	...	8	5	...	1
St. Matthew's .....	4	1	4	38	5	2	1	1	2	2	...	1
St. Michael's .....	4	2	8	26	5	2	1	1	5	7	3	6
St. Paul's .....	5	...	3	55	1	4	...	...	1	16	2	...
St. Peter's C.E. ....	2	...	2	18	2	1	...	1	...	2	...	1
" R.C. ....	2	...	1	23	7	1	...	...	...	1	...	...
St. Silas' .....	2	...	4	20	5	...	...	...	3	8	...	6
St. Stephen's .....	9	1	2	43	4	...	1	...	3	2	...	...
St. Thomas' .....	3	7	5	79	8	3	2	...	7	8	3	4
Wensley Fold .....	6	...	6	30	10	3	1	...	4	1	...	1
Whalley Range .....	6	1	6	28	4	...	2	2	2	9	...	...
Witton Infants .....	...	...	...	1	2	...	...	..	...	...	...	...
Total .....	184	62	175	1272	205	69	47	36	146	335	28	91

**TABLE LIX.**  
**Percentage of Defects treated during 1911.**

Defect.	Number of Defects	Number of defects treated	Number of defects not treated	Percentage of defects treated
Enlarged Tonsils .....	219	120	99	54·8
Tonsils and Adenoids ...	63	37	26	58·7
Adenoids .....	179	114	65	63·7
Eye Defects .....	1253	533	720	42·5
Ear Defects .....	213	139	74	65·2
Anæmia .....	167	138	29	82·6
Carious Teeth .....	392	179	213	45·6
Skin Diseases .....	88	73	15	82·9
Dirty Heads, etc. ....	189	189	...	100·0
Respiratory Diseases .....	42	36	6	85·7
Circulatory Diseases .....	49	27	22	55·1
Other Diseases .....	62	42	20	67·7
Total .....	2916	1627	1289	55·8

## CONCLUSION.

It will therefore be seen that a considerable amount of work has been carried out in School Hygiene in Blackburn during 1911.

As the years elapse such continuous work cannot fail to prove of immense value to the coming generation.

